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SIXTEENTH ANNUAL REPORT
OF THE
DEPARTMENT OF PUBLIC WORKS
WITH
MAYOR'S MESSAGE,
CHICAGO,
1891.

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FROM

*the Commissioner,
J. F. Aldrich.*

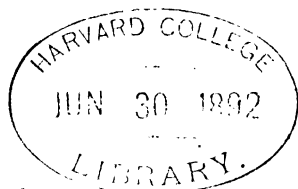
30 June, 1892.

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MAYOR'S ANNUAL MESSAGE
AND THE
SIXTEENTH ANNUAL REPORT
OF THE
DEPARTMENT OF
PUBLIC WORKS
TO THE
CITY COUNCIL OF THE CITY OF CHICAGO,
FOR THE
Fiscal Year Ending December 31,
1891.

CHICAGO:
CAMERON, AMBERG & CO., PRINTERS,
1892.

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James J. ...
Commissioner

MESSAGE
OF
MAYOR WASHBURNE
1892

MESSAGE OF MAYOR WASHBURNE.

CITY OF CHICAGO, MAYOR'S OFFICE, }
April 18, 1892. }

To the Honorable the City Council:

GENTLEMEN:—One year ago the present administration assumed its duties, and pursuant to the provisions of our charter, I to-day have the privilege to present to your Honorable Body my first annual official communication.

At the outset, I desire to welcome as co-laborers one-half of the Council which has been but recently elected, and to express the belief that a closer acquaintance will result in harmonious and united action in the interest of the City, and of good government during the coming year. At the same time I wish to thank those members of the Council who now retire, as well as those who remain for another year, for the many courtesies they have extended as individuals to the administration.

The year upon which we have just entered bids fair to be one of the most historic in the record of this City, and I can not too strongly impress upon your Honorable Body the responsibility which rests both upon you and this administration in the work which is imposed upon us of preparing our City for the great international enterprise, the World's Columbian Exposition, which is now almost ready to be opened, and which will be dedicated during the coming year.

At no time in the history of Chicago has the necessity of loyal co-operation between the Council and the various departments of the administration and an honest and earnest endeavor for the advancement and improvement of our City

been more apparent than it is at present, or more imperative than it will be in the immediate future. We are required to be ready to receive the World as the guest of Chicago; and it lies with us to make that reception a credit to our municipality, or otherwise. We can not afford to allow party strifes, or personal considerations to stand in the way of such an administration of the trusts reposed in us as shall do credit to our City when the eyes of the world shall be upon us, or to retard in any manner the great work which now confronts us. While it is true that we will be restrained from accomplishing many reforms and improvements in existing affairs, the desirability of which we all recognize, by reason of an insufficient income, it is still our duty to so administer affairs as to obtain the best results with such means as are placed at our disposal.

It is not my intention at this time to make any very extended reference to the work which has been accomplished during the past year; the condition of the City financially, physically, and from the standpoint of public morality speaks for itself.

The reports of the various heads of departments will bear ample testimony to the fact that we have not been idle and that the best that could be done has been done with the means at our disposal.

I beg your indulgence however for a few moments to compare the condition of present affairs with that of one year ago, and consider suggestions for advancement and improvement, and for certain reforms, the necessity for which is pressing and cannot be overlooked.

When this administration came into power one year ago it was confronted by the fact that the City was in a deplorable financial condition. The balance in the City Treasury January 1, 1891, was \$567,555.32. This was the lowest point reached by the City financially for several years past, and it was therefore necessary that our resources should be husbanded and our affairs administered with the utmost economy. This stringency compelled us to forego much in the way of needed improve-

ments, and prevented the citizens from receiving the benefit thereof. By economizing our finances we tided over the year and succeeded in accumulating a balance to the credit of the City, which was on January 1, 1892, \$1,968,722.19. The bonded debt of the City on January 1, 1892, was \$13,530,350.00; water certificates, \$1,000,000.

There is standing to the credit of the Sinking Funds, which can only be used for the redemption of bonds, \$378,666.59.

The total receipts for the year ending December 31, 1891, were as follows:

Burr, Jonathan, Fund.....	\$	1,722	24
Building Inspection Department.....		59,244	70
Fines, Police Courts.....		76,558	14
Cost of Tax Sales.....		149	35
City Markets.....		4,792	95
Contingent Fund.....		3	50
Department of Public Works.....		692,897	88
Fire Department.....		6,755	09
Fees.....		1,550	05
General Fund.....		1,410,127	70
Harrison and Tree Medal Fund.....		48	80
Health Department.....		161	50
House of Correction.....		61,812	79
Wharfing Interest.....		1,219	32
Licenses.....		3,382,453	48
Police Life and Health Insurance Fund..		200.00	
Police Department.....		31,294	64
Pounds.....		3,556	88
Public Library.....		6,928	95
Rents.....		27,495	90
Refunding Loan Account.....		670,700	00
Sewerage Fund.....		171,733	51
School Fund.....		2,400,440	18
School Tax Fund.....		351,643	75
Special Assessment Fund.....		6,407,489	14
Street Lamp Fund.....		97,855	56
Suspense Account.....		5,296	77
Taxes.....		9,200,090	15
Water Fund.....		4,456,337	37
Total.....		\$29,550,560	29

The total expenditures for the year ending December 31, 1891, were as follows:

Burr, Jonathan, Fund.....	\$ 1,665 13
Building Inspection Department.....	43,314 69
Chicago and South Side Rapid Transit Railroad Company.....	100,000 00
Contingent Fund.....	17,566 62
Cost Tax Sales.....	3,316 46
Cost Collecting City Taxes.....	118,216 54
City Markets.....	2,113 99
City Cemetery.....	120 80
City Clerk's Office.....	12,578 59
City Treasurer's Office.....	38 57
Department Public Works.....	2,681,832 30
Election Expense.....	88,465 32
Erring Woman's Refuge.....	3,456 50
Fire Department.....	1,401,529 38
General Sinking Fund.....	50 60
General Fund.....	1,378,063 90
Health Department Fund.....	457,856 81
House of Correction.....	93,288 86
House of Good Shepherd.....	3,456 50
Interest Account.....	506,360 50
Illinois Humane Society.....	116 00
Judgment Account.....	48,903 04
Legal Expense.....	24,861 04
Police Life and Health Insurance Fund.....	421 10
Police Fund.....	2,623,239 45
Police Courts.....	3,357 29
Printing and Stationery.....	16,118 44
Pounds.....	2,435 95
Public Library Fund.....	109,633 79
School Fund.....	2,399,480 27
School Tax Fund.....	4,287,164 73
Special Assessment on City Property...	1,887 02
Special Assessment Fund.....	6,222,900 68
Street Lamp Fund.....	803,525 71
Sewerage Fund.....	558,458 31
Salaries.....	180,151 87
Suspense Account.....	451 65

Special Deposit Fund.....	\$	1,000 00
Washingtonian Home.....		27,500 00
Water Fund.....		3,891,033 43
Total.....	\$	28,115,931 83

In this connection I would suggest the desirability of taking some action toward bringing about legislation amending the law governing our present method of assessment and collection of taxes. Under the existing law we have seven townships which maintain a separate set of officers, each withholding from the treasury of the City to the point of litigation annually the moneys collected for the use of the municipality. The unseemly scramble to collect interest upon the tax funds, which is the direct outgrowth of this condition of affairs, brings the credit of the City into disrepute and subjects the administration, and particularly the City Comptroller, to much undeserved criticism. The abolishment of the present township system, and the centralization of the entire matter under the control of one set of responsible officers, would secure a more equitable assessment and a more prompt turning over of the moneys collected. Incidentally it might be mentioned that with our City and County limits so nearly identical it is the opinion of many thinking citizens that the abolishment of County and City lines and the union of both under one form of municipal government would result in a great benefit to the community. The City of Philadelphia embodies the entire County in which it stands, as does the City of New York.

It is my opinion that if the same condition prevailed here, it would eradicate much that is reprehensible in the handling of the public funds, do away with a number of independent offices which are used for the furtherance of political or personal ends and to the hinderance of good government, remove irregularities and produce greater uniformity in the burdens of taxation. The able and efficient City Comptroller has experienced much difficulty arising from the system now in vogue, to which he will no doubt advert in his annual report.

In giving a short review of the work of the different departments I will take up the Building Department first, for the reason that it is invested with a peculiar importance owing to some recent and exceptional and unlooked for occurrences.

Notwithstanding the fact that there has been considerable adverse criticism of this office, I am convinced that the work of the Building Department for the past year has been exceedingly satisfactory. Its chief officer, Mr. Louis O'Neill, is a man of high personal character, of unquestioned integrity and fully qualified by a long life in the building business for his present position. That he has been subjected to hostile criticism does not and cannot impeach his character before those people who know his honorable career, and the record of his department for the past year will, I am sure, upon investigation demonstrate the fact that at no time within the history of the City has that department on the whole been conducted so satisfactorily to the citizens as it has been under his administration. The report of the Building Commissioner shows that during the year 1891, 11,805 buildings, aggregating a frontage of 282,762 lineal feet, or 53 miles, were erected, at a cost of \$54,000,000, the largest record in the line of building ever made in this City. These figures show the enormous amount of work thrown upon the shoulders of this department, and that there have been so few complaints is, in my judgment, greatly to its credit. It is a matter of universal regret and sorrow that a great calamity has recently fallen upon some of our citizens, bringing death and destruction to otherwise happy homes. Further full and dispassionate investigation into the causes of the Pearce street disaster, deplorable as we all consider it to be, I am of the opinion, will result in clearing the Building Department of any censure in the premises.

Before passing final judgment upon a worthy man with an honorable name and record, he should be afforded a fair and unbiased hearing.

DEPARTMENT OF PUBLIC WORKS.

The work of this department, as shown by the exhaustive report of the Commissioner, in quantity and quality far surpasses the achievement of any previous administration of the department.

There were during the year 117 miles of streets paved, 116 miles of streets improved, 168,882 square yards of pavement laid by the street car companies and 152,621 square yards of street pavement repaired by the City, making a total of paved streets in the City 744 miles, and leaving the total of all kinds of streets in the City 2,334 miles. There were constructed 603 miles of sidewalk and 245 miles of sidewalk repaired, while 7,160 miles of streets were cleaned and 181,398 house connections put in as against 154,000 last year. The total cost of the Water Works to the City to December 31, 1891, was \$19,061,000.12. Total operating expenses and maintenance of the Water Works up to December 31, 1891, including interest on the bonded debt, \$18,084,189.55. Total Water Works income to December 31, 1891, 27,500,511.37; difference between income and expenditure, \$9,416,321.82. The amount of water taxes for the year was \$2,364,433.09. The amount of water furnished was 63,552,000,000 as against 56,338,000,000 last year. Excellent progress has been made on the four-mile tunnel, 4,339 lineal feet of which has been constructed to January 1st, this year. Considerably over half of the Lake View tunnel was constructed by January 1st, and the two-mile crib put in place. The Thirty-fifth street and Ashland avenue tunnels, which supply the Stock Yards, the Jefferson street connecting tunnel, the Fourteenth street pumping works and the new 100-foot land tunnel for the World's Fair supply, have been constructed and put in proper working order, while the Lake View supply has been largely increased by improvements made on the intake. A number of bridges and viaducts have been started on their way toward completion, and by means of extraordinary efforts the administration compelled the completion of the Madison street bridge, thereby

restoring to the great West Side its most important connection with the South Side of the City. Over 103 miles of sewers were constructed as against 72 miles last year, making the total number of miles of sewerage in the City 888. 13,668 catch-basins were cleaned, 3,630 raised to grade and 62 miles of house drains laid. I desire to call your attention to that part of the report touching the management of the river and harbor, by which it will be seen that the lowest level ever reached by the lake since 1854 was reached during the past year. Owing to circumstances over which we have no control it is unlikely that there will be much relief from this during the year 1892, but notwithstanding the low water the navigation of the City has increased 746,847 tons, and while by the dredging operations 260,435 cubic yards of material was removed from the Chicago river, there was saved 81 per cent., or a total of nearly \$39,000, in the cost of this work as compared with the previous year.

The city electric light system has been extended in a most practical manner by the substitution of 993 arc lights for 3,894 gas lights, the expense of lighting being thus largely reduced while better light is given to the public.

There has been much complaint, and unjustly so, during the past year concerning the quality of our water supply. There can be no question but that the quality of the water has not been all that it should be, but this is a matter for which neither the Water Department nor the City Administration can be held accountable, as it has for years been a problem to the solution of which our best citizens, and indeed the public at large, have unavailingly directed their attention. These complaints will continue, and the City's water supply will be contaminated to a slight degree during the spring floods until some permanent and proper plan be discovered whereby the City's drainage can be kept from the lake and disposed of, as in foreign cities, through a fertilizing process, or by the completion of the drainage plan, often termed the "Drainage Scheme."

New pumping works should be at once built in the north-western portion of the City, similar to the pumping station at Ashland avenue and Twenty-second street, to give greater fire protection and accommodation to a rapidly growing section of our City. I am happy to be able to assure you and the public, that from the rapid progress made on the new tunnels, the water supply during the coming year, we have every reason to hope, will be much improved.

In the Water Office the system of assessment has been improved, and a re-inspection of the whole City of Chicago is being completed, whereby the water rates of every building in the City will be shown, and the revenue of the department largely increased during the year. The Meter Department has been thoroughly reorganized, and the method of book-keeping and collection greatly improved upon.

Considerable comment and discussion has, for some time past, arisen in regard to the question of street cleaning, and, in this connection, I cannot do better than repeat some observations which I made in a recent communication to the La Salle Club of this City. The great difficulty seems to be, not a difference of opinion between the administration and the public, but a lack of funds upon the part of the City to properly perform this work, which we realize is necessary. If the citizens of Chicago will themselves aid to the extent of keeping newspapers and house dirt from the streets, they will do much toward accomplishing this result. If the owners of large buildings will compel their janitors to cart away the accumulated dirt of large office buildings, instead of throwing it in our streets surreptitiously at break of day and immediately after the streets have been swept and cleaned, they will contribute much more to the cleanliness of the City than by a large amount of talk and very little action.

It is easy enough to pass resolutions, and more easy to know what ought to be done, but until the City of Chicago can have many times the present appropriation, it can do nothing

more toward the proper cleaning of its streets unless a public spirit is aroused through which each individual will contribute, so far as it in his or her power lies, toward keeping from the streets much dirt that now goes there. This statement applies as well to the cleanliness of the allèys as to the cleanliness of the streets.

A little less complaining and an honest effort on the part of fault-finders to contribute their proportion as citizens to this end will accomplish what they ask. A little more honesty in the payment of just taxes, by corporations and large property owners, would also go far toward placing at our disposal means wherewith to improve the existing condition of affairs.

For the purpose of placing our streets in good repair within the limits of Chicago avenue on the north, Ashland avenue on the west, and Twenty-second street on the south, a little less than one year ago I called a meeting of the aldermen representing the wards within these boundaries. It was then agreed that ordinances should be passed for the immediate improvement and repairing of all streets within this territory. Unfortunately, however, sixty out of sixty-three ordinances for the improvement of streets within the territory named, which had been agreed upon, were defeated, when subsequently brought before the Council for action.

This leaves us, at this time, with prominent streets in the busiest portion of the City with pavements unfit to drive over, and in a most unsightly condition. I trust that we shall be enabled to take up this matter during the ensuing year and crowd it through in order that streets of this character may be put in proper condition.

This brief review but lightly touches the features of the Commissioner's Report, and when the depleted condition of the fund appropriated for this department, at the time that the present administration took control of it, is taken into consideration, it will be evident with what ability, careful economy, and consideration of the public interests its affairs have been conducted.

HEALTH DEPARTMENT.

I desire to refer you to the excellent report furnished by the Commissioner of Health, wherein it can be seen that his department has accomplished much that was not accomplished in the past. The general health of the City for the past year has been better than for many years previous. The department is doing all within its power and means to give the public proper sanitary service, but it will be impossible to clean alleys as often as they should be cleaned until the City is enabled to find a short haul for the accumulations made in the prosecution of this particular work. The railroads, which have obtained from this City so many grants and franchises, declined to carry garbage beyond the City limits. The contractors find it impossible to have their teams make more than two or three trips daily, whereas with a short haul to a furnace or crematory, where these accumulations might be destroyed, or to a railroad which might carry it beyond the City limits, the contractors, for the same price, could do double or treble the work daily, thereby giving to the public a much-needed relief.

Before I dismiss this subject I will call the attention of your Honorable Body to a matter which demands your immediate attention. I refer to the necessity of at once taking the proper steps looking toward the establishment of a contagious disease hospital. It is neither just nor to our credit as citizens that a municipality with the wealth and resources of the City of Chicago should be so far behind the times as to be without a single institution in which persons afflicted with diseases of a contagious character can be housed and properly cared for. The lack of such an institution subjects the community to great danger. The time has long since arrived when the erection of a contagious disease hospital, in which patients, stricken down by diseases of this nature, can be isolated, their wants attended to and the danger of epidemic thereby removed, has become a positive and pressing necessity.

POLICE.

The Police Department has been greatly improved during the past year. While numerically it has not grown in proportion to the growth of the City and consequent needs of the public, owing, as in the case of so many other departments, to a want of sufficient funds, its method of construction has been so changed and so many reforms have been introduced in the force, as to raise the standard of its efficiency far above any point which it has ever reached before. The reforms which I have introduced, with the able assistance of its most capable Chief, are such as to not only be of benefit to the force but also to the community. We have established a system of examination, both written and physical, which is eminently calculated to improve both the mental and physical character of the force. In pursuance of the platform upon which this administration was elected, the police force has been, as far as it has been possible, held aloof from politics, the energies of the department being entirely directed toward its legitimate functions, the preservation of good order and the enforcement of the law. It has taken many months to become acquainted with the intricacy of police management, discipline and intrigues, but I have every reason to feel assured that the coming year will demonstrate the wisdom of the changes which have been made, and that the public will thereby receive from the department better protection and more intelligent service.

Notwithstanding the assertions derogatory to the police force, which periodically emanate from certain quarters, I hold, and I believe your Honorable Body will agree with me, that the force is composed of as fine and as brave a body of men and officers as any in the world. The faults of the department have arisen, not so much from incapacity as from want of proper organization, discipline and respect for superior officers. I have refused to reinstate any officer discharged for drunkenness or insubordination, and have supported, and shall continue to support, every superior officer as against any subordinate.

The force is rapidly improving in usefulness and efficiency, and through the reforms to which I have adverted, will no doubt continue to so do, until by the advent of the World's Fair the police force of Chicago will be a creditable one. To bring a police force up to the proper standard requires a long period of patient, firm and intelligent discipline. The past year has in a measure been one of preliminary work, which will enable us and our successors to carry forward the improvement, until our force reaches the proper standard.

GAMBLING.

The suppression of public gambling in a great metropolis and cosmopolitan community like Chicago is a matter easier undertaken than accomplished. Until the three great inherited and inborn passions of man, licentiousness, gambling and intoxication, have become eradicated, by education or birth, no statute laws can entirely suppress the social evil, gambling and intemperance. When our hypocrites cease to extol their own virtues in the synagogues, and cease to foster vice in secret by leasing to prostitutes, gamblers and law-breaking saloon-keepers for the sake of the increased revenues received thereby, then and then only, can we hope to view the millennium; until then we can no more turn back the tide of man's passions by laws than could Canute turn back the advancing ocean by his command. Notwithstanding the difficulty of dealing with this problem, however, I venture the opinion that the present administration has done more than any one of its predecessors towards the suppression of public gambling. The gaming hells which in the past were run with wide open doors on our most public thoroughfares have been closed. The gaming instruments have been confiscated, and the rank and file of the army of professional gamblers which has from time to time overrun the City find themselves without an occupation.

EDUCATIONAL.

In this department the usual high standard of efficiency has been maintained and the usual rate of progress outstripped.

The number of pupils enrolled to date is 149,804, an increase of nearly 10,000 over the year previous. There have been completed and opened during the year fifteen schools and school buildings distributed as follows:

North Division—Knickerbocker School.

West Division—Ryerson, Bancroft, John Crerar and Komensky schools, and additions to the Ellen Mitchell, Carpenter and Foster schools.

South Division—Auburn Park, Beale, Everett, Champlin and W. C. Goudy schools, and additions to the Auburn Park, Sherwood and Forestville schools.

There has also been erected and completed during the year a workshop for the English High and Manual Training School, on the old High School lot, Monroe street, east of Halsted street.

These will be ready for occupancy, at the opening of the next term, May, 1892.

The Northwest Division High School, corner of Davis street and Potomac avenue, will be ready for occupancy September, 1892.

Contracts have also been let for the following buildings:

Greenwood avenue, corner Greenwood avenue and Forty-sixth street.

Holden, corner Deering and Thirty-first streets.

Geneva street and Washtenaw avenue.

Washington Heights, corner One Hundred and fourth and Charles streets.

Harrison street, near Sacramento avenue.

The report of the department shows that there is outside the school buildings a seating capacity of 16,740, in 201 rented buildings.

This indicates a serious lack of school accommodations, to which your Honorable Body should direct your earnest attention in making school appropriations in the future.

PUBLIC LIBRARY.

During the last year we have had the satisfaction to learn that the Board of Directors of the Public Library have decided upon the erection of a new and beautiful building, in which the institution will shortly be domiciled and which will be a credit and an ornament to the City. Our Public Library to-day circulates more books than any similar institution in the country. It contains above 170,000 volumes and the supply is increasing at the rate of 11,000 annually. Its circulation during the past year was 1,284,593. There have been established for the convenience of the public 26 delivery stations from which books are drawn, and five branch reading rooms which are supplied with periodicals, general reference books and works upon science and other useful matter. We have reason to congratulate ourselves upon the great work which this excellent institution has done and is doing.

INTRAMURAL TRANSIT.

During the last year your Honorable Body selected a committee to investigate the question of intramural transit in general and the subject of elevated terminals in particular. This work was not undertaken one moment too soon. Traffic in the business portions of the City had become so congested as to be a menace to life and property and an impediment to trade and commerce. The committee suggested an ingenious plan for temporary relief and the appointment of a committee of experts to deal with the question of permanent relief. Pursuant to this recommendation you authorized me to appoint a committee of three experts, which I have done. This committee, which is known as the Chicago Terminal Commission, is in the East investigating the question of elevated terminals, which is the only proper and final solution, not only of the grade crossing question but the entire problem of intramural transit. When they return I confidently anticipate they will be in a position to present to your Honorable Body such a report and recommendation as will place the City Council and administration

in a position to take up and dispose of this question in the speediest and most practical manner.

The citizens of the West and South Sides have reason to congratulate themselves upon the passage by your Honorable Body of a large number of ordinances for so-called cross-town street railroad lines. This action of the City Council will unquestionably result in the development and general improvement of those parts of the City which have for many years been held back through lack of proper accommodation in the way of transit.

By a recent ordinance the Chicago City Railway Co. was authorized to cable a portion of Michigan avenue, thereby cutting off the only street connecting the North and South Divisions not turned over wholly or in part to the street car companies. The necessity for thoroughfares connecting the different divisions of the City and not monopolized by the street railroads is daily becoming more and more apparent. While it is true that Chicago is a commercial city, and that its growth and wealth are due to this fact, it is also true that the time has arrived when some special provisions must be made for other considerations. Some means must be devised for pedestrian and vehicular traffic which under present conditions are rapidly becoming impossibilities. I would suggest that in the near future you consider this matter seriously, with a view to taking such action as will obviate the bridge nuisance and at the same time relieve pedestrians and occupants of vehicles from the danger to life and property now existing upon so many of our thoroughfares.

FIRE DEPARTMENT.

The Fire Department as usual has maintained itself in the front rank of the City departments, and to-day as always stands unequalled by any similar department in the world. The total number of men is 990, being an increase of 66 over the force of last year. The fire appliances have also been largely increased and 3,353 fires were conquered as against 2,755 last year.

HOUSE OF CORRECTION.

I cannot too strongly urge upon the City Council the necessity of taking some action during the coming year to relieve the House of Correction from its present over-crowded condition, and I would suggest that your Honorable Body appoint a committee not exceeding five whose duty it shall be to investigate this matter and suggest some means to this end.

I would recommend a careful perusal by the members of the Council of the comprehensive report submitted by the Superintendent, from which it will be seen that the over-crowding which has been going on has rendered the place little better than the famous Black Hole of Calcutta. This fact is not owing to its management, which is the best possible under the circumstances. It is due to the limited quarters. At the present time three prisoners are compelled to sleep in one cell, with only one cot, each cell being 6x4 feet in size. Although the state of affairs herein referred to has been repeatedly called to the attention of the authorities by the Superintendent it has not been remedied because the City has not the money wherewith to do it. Children absolutely innocent of crime or knowledge of crime are there committed daily to intercourse and association with the most hardened and contaminating criminals. It is time that this community should take up this matter in earnest and see to it that boys should not be subjected to the corrupting influences which make criminals instead of reforming vicious and truant children. As the matter now stands the House of Correction is a school for vice rather than what its name signifies. While the institution has been cramped for means during the year, many excellent changes and improvements have been made. A school for the small boys has been established and in successful operation for nearly a year. There can be no question of the good accomplished by this department ; but it does not yet accomplish the work that the people have a right to expect from it. The system of commitment is wrong, both as to the boys and

older inmates, and a large portion of the expense of the institution should be removed from the shoulders of the taxpayers by making it possible to obtain better results from the labor of the prisoners.

The need of a training school for very young boys, where the mind and hand could both be turned toward a life of usefulness and honorable manhood, is so evident that it will not admit of an argument.

The sanitary condition could not be better. As an evidence there were 9,082 prisoners in the institution during the year and but 13 deaths occurred out of all this number.

LAW DEPARTMENT.

The work of the Law Department has been, during the year, conducted in a most satisfactory manner. Judgments against the City on account of damages growing out of the construction of viaducts have been kept down to an unusually small amount. Good work has been done in the matter of suits against the City for damages growing out of personal injuries. The constant expansion of the City has entailed an enormous amount of work upon the special assessment attorneys, and the determined stand taken by the gamblers and other classes of persons not disposed to obey the laws has rendered the work of the Prosecuting Attorney's office very arduous.

Perhaps the most important results accomplished by the Law Department has been the decisions obtained in the courts of last resort, greatly strengthening and fortifying the control by the City of its streets and public grounds at railway crossings and curtailing and abridging the rights of the railroads at such points. The fact that the various railroads approach so close to the center of the City, together with the increasing congestion of the streets, has brought the City and the railroads, during the past year, in many cases, into the sharpest legal conflicts with each other. This has been illustrated by one or two notable cases. The Illinois Central Railroad Company, in one

suit, decided by the Supreme Court, very strenuously contested the right of the City to condemn a street crossing at grade over its right of way, but was signally defeated by the decision of the Supreme Court.

The North-Western Railway Company, in an equally interesting case, insisted upon damages amounting to \$18,741.00 for opening West Taylor Street across its right of way, but the trial court awarded \$1 as damages, and the Supreme Court after a protracted contest sustained the judgment of the lower court and held that the City was not liable for any damages to the railroad company growing out of the exercise by the City of its power and duty to protect the property, health, safety and lives of the people.

These two cases go very far toward establishing a position taken by the present able Corporation Counsel that the City has ample legal power to meet the approaching exigencies in the matter of street and railway traffic, by requiring all railroad companies to remove their tracks from the grade of the streets. It will be readily seen that in coming years this power firmly established on the part of the City will be of the greatest possible moment as affecting the safety and lives of the people, and that any victory gained by the City looking in this direction is one of much importance.

MISCELLANEOUS.

Not quite one year since, by order of the City Council, the Mayor, Comptroller and Chairman of the Finance Committee were empowered to negotiate with the gas companies which supply most of the light now used by the City, with the view of obtaining a reduction in the price of gas and as equitable a settlement as possible of the subjects then in controversy between the gas companies and the City. These negotiations occupied several weeks, and after much disagreement and discussion the committee succeeded in obtaining from the gas companies the most favorable settlement ever secured from the Chicago Gas Combine. Under the terms of this settlement the gas companies

agreed to pay to the City of Chicago the sum of $3\frac{1}{2}$ per cent of their gross receipts annually, it being provided, however, that at no time should the amount to be paid into the City Treasury annually be less than \$150,000. Under this agreement the City received the sum of \$152,845 during the year just past. In addition to this the gas companies were obliged to consent to a reduction in price of gas to consumers of five cents per thousand cubic feet per annum to each consumer, from the year 1893, and a further reduction of five cents per 1000 feet each year until the price reaches \$1.00 per thousand feet. A substantial reduction in the price of gas to the City was also obtained.

The smoke nuisance is still with us and although much has been done towards its abatement it cannot be entirely suppressed. No doubt the evil may be mitigated by a continual prosecution of manufacturers and others who use power, but its absolute abatement cannot be expected under existing circumstances and conditions. Experiments are now being made to abate this nuisance upon boats on our river and I am told promise success.

Many complaints having come to me with reference to extortion on the part of drivers of cabs and other passenger vehicles for hire, I caused an ordinance to be drawn up, which your Honorable Body passed, whereby I have every reason to hope the public shall receive a better cab service at more moderate terms and which will terminate these complaints from a victimized community.

I propose to introduce as soon as possible, and with your assistance put into practice, a measure which I hope will tend to check, if not entirely eradicate, a rapidly increasing evil, namely the growth of the so-called massage parlors and Swedish movement cure establishments. While many of these institutions are conducted in a proper and decent manner, nevertheless under the guise of bath houses, electric treatment establishments, etc., houses of prostitution have

invaded residence and other respectable portions of the City. The police have not been able to suppress these places for the reason that they are conducted under all the appearances of respectability. The authorities, however, are informed by numberless complaints weekly of the true character of most of these establishments. In order to correct this evil, which is far greater than my time will now permit me to discuss, I suggest as a remedy the passage of an ordinance, that all bath houses, massage parlors and establishments of that character shall be required to take out a license at a nominal figure. That such licenses be granted only on the recommendation of the Superintendent of Police, and that such licenses may be revoked also on his recommendation. That for violations of the ordinances a fine of not less than \$50.00 nor over \$100.00 be imposed. This will obtain free and frequent access to these places for the police, whose duty it will be to see that they are conducted decently under penalty of the license being revoked and the establishment closed up.

During the past year a boiler ordinance has been drawn up by the Law Department with the advice and assistance of a number of experts who are familiar with the requirements of the case. This ordinance, which now awaits passage by your Honorable Body, will give better service from this department and greater security to life and property.

The building ordinance which is also defective and does not meet the present requirement should also be amended. There are a number of other ordinances of the City which through lapse of time and changing circumstances have become defective.

I think no better work can be done by the Council during the coming year than to appoint committees who, with the assistance of citizens and experts in the particular line covered by each ordinance, would remodel such defective ordinances so as to make them of value to the City and calculated to reach the required ends.

PERSONAL.

I now desire to offer a few remarks upon one or two subjects, which properly find place here.

When I assumed the duties of my office I felt convinced that it was neither right nor decorous for the executive branch of the City Government to preside in the legislative branch. I was then and am now of the opinion that our form of municipal government ought to be patterned in this respect after that of our National Government. The founders of the latter, those far-seeing and wise patriots who evolved and framed our Constitution, a Constitution which has lived and added to its strength for more than a century, admitted it unwise and improper that the Chief Executive, whose power is simply that of review, should preside in the primary stages of legislation. The same rule has been adopted in our State legislative organizations, and by almost if not every municipal form of government in this country. The wisdom of this rule is demonstrated by history, practice and experience. Therefore, while I do not under the law abdicate any authority vested in me by the charter, I nevertheless abstained from taking part in the deliberations of your Honorable Body, for the reason that no executive officer can bring his mind to review actions without prejudice if he participates in the work and assists in forming the legislation which he subsequently reviews.

In conclusion let me say that to the chiefs of every department I owe whatever good work has been accomplished during the past year. I cannot find words sufficiently strong to emphasize the deep obligation I owe them for their loyalty, capability and unselfish labors, the fruits of which will be better seen and appreciated during this the second year of this administration.

HEMPSTEAD WASHBURN,

Mayor.

SIXTEENTH ANNUAL REPORT

OF THE

Department of Public Works

CITY OF CHICAGO

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Department of Public Works

CITY OF CHICAGO.

COMMISSIONER.

J. FRANK ALDRICH.

SECRETARY.

D. S. MEAD.

Heads of Bureaus.

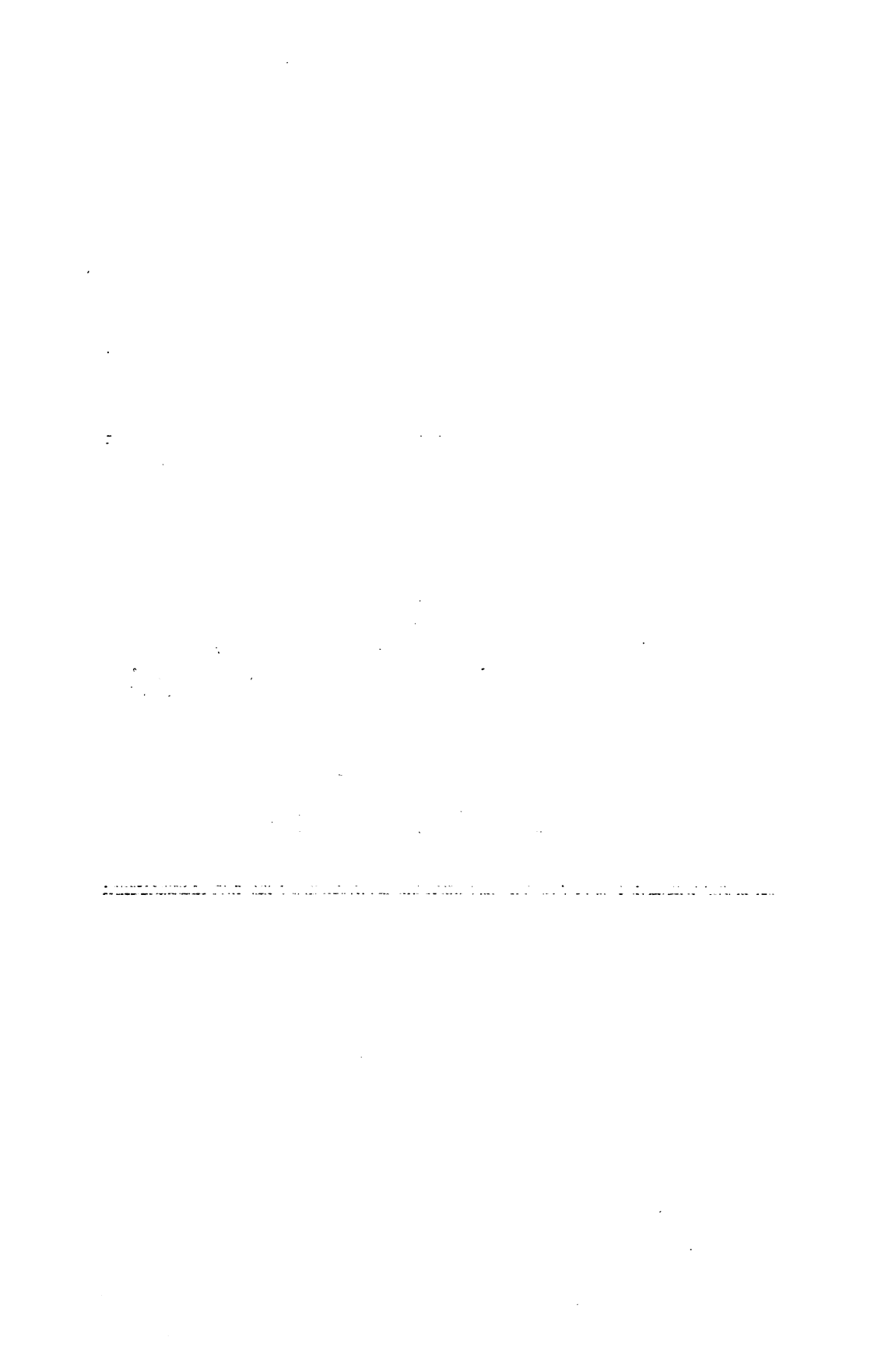
ENGINEERING.	
CITY ENGINEER,	L. H. CLARKE
FIRST ASSISTANT CITY ENGINEER,	BERNHARD FEIND
SEWERS.	
SUPERINTENDENT,	O. H. CHENEY
STREETS.	
SUPERINTENDENT,	JAMES H. BURKE
ASSISTANT SUPERINTENDENT,	M. H. GIBSON
SPECIAL ASSESSMENTS.	
SUPERINTENDENT,	J. S. SHEAHAN
WATER RATE COLLECTIONS.	
SUPERINTENDENT,	WILLIAM LORIMER
ASSISTANT SUPERINTENDENT,	EDWARD J. DWYER
MAPS.	
SUPERINTENDENT,	R. A. MANSTEIN
<hr/>	
DEPARTMENT BOOK-KEEPER,	E. F. HAMILTON
<hr/>	
PRIVATE SECRETARY TO COMMISSIONER,	E. LOUIS KUHN
ACCOUNTANT,	JOHN FREEMAN
PURCHASING AGENT,	W. G. HALKETT
CASHIER,	ROBERT A. SMITH
PAYMASTER,	JOHN A. MCINTOSH
CHIEF CLERK ENGINEERING BUREAU,	JOHN W. COGILAN
SUPERINTENDENT WATER PIPE EXTENSION,	JOHN A. MOODY
BRIDGE ENGINEER,	W. M. HUGHES
CHIEF ENGINEER BUREAU OF STREETS,	GEORGE L. PURINTON
SUPERINTENDENT OF SIDEWALKS AND STREET OBSTRUCTIONS,	WILLIAM H. DURANT
CHIEF CLERK BUREAU OF STREETS,	ERAST J. BURKERT
CHIEF CLERK WATER RATES,	H. T. CARR
WATER RATE ASSESSOR,	THOMAS PATTISON
WATER PERMIT CLERK,	H. G. NAPER
SUPERINTENDENT WATER METERS,	P. S. STORM
CASHIER,	JOHN W. LYONS
REGISTRAR WATER RATES,	JOHN M. HUBBARD, JR.
ENGINEER IN CHARGE NORTH PUMPING WORKS,	D. H. WELCH
ENGINEER IN CHARGE WEST PUMPING WORKS,	JAMES STEWART
ENGINEER IN CHARGE SIXTY-EIGHTH STREET PUMPING WORKS,	A. O. PARKER
ENGINEER IN CHARGE CENTRAL PUMPING WORKS,	CHARLES McDONALD
ENGINEER IN CHARGE LAKE VIEW PUMPING WORKS,	F. D. PARKER
ENGINEER IN CHARGE WASHINGTON HEIGHTS PUMPING WORKS,	GEORGE INMAN
ENGINEER IN CHARGE CANAL PUMPING WORKS,	W. J. CULLITON
ENGINEER IN CHARGE FULLERTON AVENUE PUMPING WORKS,	A. D. HOWELL
ENGINEER IN CHARGE WOODLAWN PUMPING WORKS,	J. Q. ANNABLE

REPORT

OF THE

Commissioner of Public Works

CITY OF CHICAGO



COMMISSIONER'S REPORT.

OFFICE OF THE COMMISSIONER OF PUBLIC WORKS, }
CITY HALL. }

*To the Honorable the Mayor and City Council
of the City of Chicago:*

GENTLEMEN :—In pursuance of my official duty I herewith respectfully present this, the sixteenth annual report of this Department, representing in detail the public improvements accomplished for and during the year ending December 31st, 1891.

The year which this report covers commenced with the Hon. William H. Purdy occupying the position of Commissioner of Public Works, his term of office expiring April 28th last, at which date the present incumbent, through the courtesy of His Honor the Mayor and the Honorable City Council, was placed in the position thus vacated and immediately entered upon the duties of such office.

The year has been marked by increasing demands upon the Department for extending, maintaining and operating all classes of public improvements made essential by the unprecedented yearly increase of population, the establishment of manufacturing interests in the outlying districts of the city, forming new settlements, opening up new streets requiring all the improvements, including the extension of sewer and water mains and street lighting, and by the still greater requirements for the extension of all classes of street improvements in the older business and residence portion of the city; the whole reaching a magnitude unequalled in former years in consequence not only of the natural growth and development of the city, but the unusual activity of all classes of public and private institutions in preparation for the great event in 1893.

The present city limits encloses an area of 181.75 square miles, representing 116,320 acres, with a possible extension of roadway reaching 4,382 miles. Of this extensive stretch of territory about 2,335 miles of streets have been opened for public use, 775 miles of which have been improved

with various classes of street paving, leaving 1,559 miles of streets unimproved. With this information some estimate can be formed of the expense for labor and material necessary to keep such roadways in condition for public travel.

With the estimated growth of 100,000 souls annually and the constant extension of street car and other transportation facilities through the recently annexed portions of the city these present unimproved districts will not long remain unoccupied and public improvements must follow and keep pace with this rapidly spreading population, involving a proportionate yearly increased expenditure of money adequate for such purpose.

Notwithstanding the excessive demands thus forced upon this Department the best energy and skill of the various heads of bureaus have been directed to the accomplishment of all public work entrusted to them to the extent that a limited appropriation of funds would admit.

The following is a condensed review of the work undertaken by the Department during the past year :

EXTENSION OF WATER SYSTEM.

130.97 miles of water pipe, from four to forty-eight inches in diameter, were laid during the year, making a total of 1,346.75 miles now laid in the city.
 1,110 new water valves were added ; total in place 9,739
 1,483 new fire hydrants were added ; total in place..... 13,411
 Total number of fire cisterns..... 54
 *22,397 new house service taps were added, making a total of.... 181,398
 *22,397 new house service pipes were added, making a total of.... 181,398
 The number of service taps inserted in water mains, including re-taps and taps inserted for enlarged service pipes to buildings previously supplied, is..... 23,381

EXTENSION OF SEWERAGE SYSTEM.

There were constructed during the year 103.583 miles of brick and pipe sewers, from nine inches to seven and one-half feet in diameter, making a total of..... 888,320
 3,979 new catch-basins were added, making a total of..... 30,468
 3,736 man-hole chambers were added, making a total of..... 33,726
 Old catch-basins were raised to grade, numbering..... 3,630
 Old man-hole covers raised to grade, numbering..... 3,872
 Old catch-basins and man-holes repaired, numbering..... 110
 Number of catch-basins cleaned..... 13,368
 Sewers cleaned to extent of 297 miles.
 House drains laid, amounting to..... 6,233 miles.

* These amounts do not include the water service pipes and taps inserted in the annexed districts previous to annexation, no record having been kept for that purpose.

STREET IMPROVEMENTS.

There were 116.35 miles of streets improved during the past year.

There were 152,621 square yards of street pavement repaired.

There were 168,882 square yards of pavement laid by the various street railway companies in streets occupied by their tracks.

Total streets in the city.....	2,334.40 miles
Total streets paved in the city.....	774.78 miles
New sidewalks constructed.....	603.97 miles
Sidewalks repaired.....	245.42 miles
Total sidewalks in city	3,140.97 miles
Streets cleaned.....	7,160.50 miles
Number of aprons, culverts, crossings, etc., built.....	9,722
Sidewalk intersections constructed.....	2,319
Number of street lamps (gas).....	27,049
Number of street lamps (oil and gasoline).....	11,355
Number of street lamps (electric).....	1,181
Total number of street lamps in the city.....	38,784
Street lamps repaired	5,758
Number of buildings removed.....	1,525

MAPS AND PLATS MADE.

For street improvement assessments.....	645
For opening, widening and vacating streets and alleys.....	694
For sidewalks	1,037
For Street Engineer's estimates.....	872
For lamp posts.....	2,004
For law department.....	639
For survey maps.....	236
For miscellaneous purposes.....	186
Total.....	6,313

TOTAL ASSESSMENTS PREPARED.

For improvement of streets and alleys.....	449
For private drains.....	242
For water service pipes.....	235
For street and alley openings.....	50
For new sidewalks.....	563
For gas lamps.....	147

For Dyott champion lamps	3
For gasoline lamps.....	46
For sewers.....	322
Boulevard lamps.....	27
Total.....	<u>2,084</u>

MISCELLANEOUS.

SPECIAL IMPROVEMENTS.

- Constructing sub-structure Thirty-fifth street bridge.
- Erecting fire engine house corner of Michigan avenue and One Hundred and Fifteenth street.
- Constructing sub-structure West Taylor street viaduct.
- Constructing North Shore tunnel.
- Constructing super-structure West Taylor street viaduct.
- Constructing sub-structure Ogden avenue viaduct.
- For furnishing electric plant for Rush street bridge.
- For sweeping and cleaning improved streets.
- Erecting two engines at Sixty-eighth street pumping works.
- Erecting fire engine house on Ewing avenue, between One Hundred and Sixth and One Hundred and Seventh streets.
- For constructing viaduct over railroad at West Madison street.
- For special castings for Fourteenth street pumping station.
- For dredging the Chicago river and its branches.
- Constructing water tunnel at Sixty-eighth street pumping works.
- For constructing sewer for Sixty-eighth street pumping station.
- For cast-iron water pipe, 36 inches in diameter.
- For constructing Thirty-fifth street tunnel.
- For erecting engine house at 6244 Laflin street.
- For constructing water tunnel at Jefferson street.
- For erecting fire engine house at corner of Fillmore and Francisco streets.
- For erecting fire engine house on Thirty-ninth street, between Blanchard street and Washington avenue.
- For erecting fire engine house corner of Fulton street and Forty-seventh street.
- For erecting fire engine house corner of Grove street and Vincennes avenue.
- For air compressors for Sixty-eighth street pumping station.
- For hydrant and stop-valve castings.
- For sub-structure for a bridge over the river at California avenue.
- For constructing engine foundations at Sixty-eighth street pumping station.

For constructing super-structure of a bridge over the river at California avenue.

For constructing super-structure of viaduct over Ogden avenue.

For five tubular boilers for Canal pumping works.

For erecting fire engine house on Columbia avenue, near North avenue.

For erecting barn for Police Department at Nos. 76 to 80 Campbell avenue.

For lowering Ninety-second street bridge.

For constructing water tunnel at Ashland avenue.

For inlet pipe for Lake View water works.

For erecting addition to Sixty-eighth street pumping station.

For erecting fire-boat house at Ninety-fifth street bridge.

For brass castings.

For furnishing tug boat for winter service.

CONTRACTS.

Contracts were entered into by the city for public improvements and various classes of material under the immediate supervision of this Department, incurring an expenditure of \$5,565,879.64, as follows:

341	Contracts for street and alley improvement at a cost of...	\$2,113,537	03
184	Contracts for water service pipes, costing.....	191,596	02
152	Contracts for private drains, aggregating.....	110,840	12
2	Contracts for constructing plank sidewalks, aggregating..	90,838	92
1	Contract for repairing and repaving street openings.....	15,075	66
20	Contracts for coal for electric light plant, pumping stations, City Hall building, Fire Department, bridge, etc., aggregating.....	272,653	12
4	Contracts for constructing and lowering bridges, aggregating.....	31,528	50
5	Contracts for constructing viaducts, aggregating.....	289,498	10
6	Contracts for copper and galvanized iron work, two pumping engine foundations, two pumping engines, cut stone, iron roof and steel floor and addition to Sixty-eighth street pumping station	146,048	07
3	Contracts for dredging Chicago river, aggregating.....	46,756	58
5	Contracts for water tunnels, aggregating.....	166,375	88
1	Contract for electric machinery for Rush street bridge...	2,500	00
2	Contracts for special castings for Fourteenth street pumping station.....	9,419	08
1	Contract for inlet pipe at Lake View works.....	2,009	96
1	Contract for laying inlet pipe at Lake View works.....	4,033	75

DEPARTMENT OF PUBLIC WORKS.

1 Contract for special castings for tunnel at Ashland avenue and Thirty-fifth street.....	\$ 4,492 10
1 Contract for steam heating Fourteenth street pumping station	2,190 00
1 Contract for five tubular boilers for Canal pumping works.....	5,000 00
1 Contract for sewer at Sixty-eighth street pumping works..	2,600 79
1 Contract for glazing at Fourteenth street pumping station.....	592 50
3 Contracts for teaming for water and sewer departments, aggregating.....	98,411 71
1 Contract for cast-iron water pipe.....	28,927 71
1 Contract for brass castings.....	26,514 40
1 Contract for tug service.....	426 67
1 Contract for air compressors at Sixty-ninth street and Peoria street.....	3,986 85
1 Contract for hydrant and stop-valve castings.....	24,209 60
5 Contracts for pig lead, aggregating.....	41,845 00
1 Contract for corporation ferrules.....	8,410 87
3 Contracts for cast-iron manholes and catch-basin covers, rings, stop-cocks and hydrant chambers, aggregating.....	29,722 05
1 Contract for sweeping and cleaning streets.....	147,593 05
1 Contract for constructing fire-boat house at Ninety-fifth street bridge.....	2,073 00
8 Contracts for constructing fire engine houses, aggregating.....	29,058 00
2 Contracts for constructing barns for Police Department..	5,539 00
1 Contract for lamp posts.....	13,419 00
1 Contract for boulevard lamps and globes.....	3,521 50
1 Contract for glass for street lamps	4,500 00
1 Contract for gasoline.....	19,150 00
5 Contracts for oak and pine lumber for sewer department, bridges, viaducts and pipe yard.....	37,994 61
543 Contracts for building sewers, catch-basins, etc., aggregating.....	1,532,990 44
Total.....	<u>\$5,565,879 64</u>

FINANCIAL.

Statement of the sum appropriated by the City Council, together with various amounts from other sources, to be expended in public improvements under the supervision of the Department, during the year 1891:

Balance January, 1, 1891, to credit of water, sewerage, general improvement, and City Hall funds.....	\$ 386,912 53
From appropriation for 1891.....	2,094,644 05

COMMISSIONER'S REPORT.

9

For rent of Rookery lot.....	\$ 35,000 04
For interest on water fund investment.....	100 00
From water revenue, including tapping permits and delinquents	2,364,463 09
From bonds sold.....	1,000,000 00
From advances to lay water mains.....	182,263 80
From advances to construct sewers.....	16,195 27
From drain permits and drain layers' licenses.....	96,109 10
From deposits on sundry improvements.....	261,384 17
From special assessment and other funds.....	413,570 83
From house-moving permits.....	4,331 00
From deposits for street permits.....	57,207 00
For labor and material.....	69,077 98
From special assessments.....	8,790,443 29
Total.....	<u>\$15,771,702 15</u>

Of this amount expenditures have been made from the sewerage and general appropriations and from funds of annexed territory, as follows:

For bridges and viaducts, dredging river, street cleaning and repairing, public buildings and parks, Fullerton avenue and Canal pumping works, improving street intersections, sewers, catch-basins, salaries, labor and material..	\$ 3,321,982 83
For South Side pumping works on account of construction.	187,127 01
For Central pumping works.....	36,753 50
For extension of water pipe system.....	1,287,978 28
For meter and private work by water department.....	77,768 08
For new lake tunnel.....	311,770 78
For new lake tunnel crib.....	36,736 74
For new land tunnel.....	500 00
For Lake View water tunnel.....	152,575 43
For water loan interest.....	326,297 05
For new shore inlet extension.....	96,986 02
For new Ashland avenue tunnel.....	15,733 70
For new Jefferson street tunnel.....	15,968 17
For advances refunded.....	59,646 56
For maintenance of water system, operating pumping works, cost of assessing and collecting water taxes, material on hand, etc.....	984,254 21
For street improvements, street openings, sidewalks, private drains, water service pipes and lamp posts.....	4,056,743 03

For rebate (excess of assessment over cost of improvements), abatement to property owners doing their own work, land damages and assessments held over and annulled by City Council	\$ 4,733,700 26
Balance December 31, 1891, to the credit of water, sewerage, City Hall and general appropriation funds.....	69,180 50
Total	<u><u>\$15,771,702 15</u></u>

WATER WORKS.

The report of the City Engineer furnishes interesting information concerning the condition and present capacity of the pumping machinery for delivering to the citizens the quantity of water required daily for domestic and other uses.

The city, at present, is supplied with 22 pumping engines of various types and power, representing a total engine capacity for delivering daily 260,000,000 gallons of water. From measurements obtained, there was pumped during the year a daily average of over 174,000,000 gallons of water. The rate of pumpage at certain times during the year reaches very closely to the total capacity.

WATER TUNNELS.

FOUR-MILE TUNNEL.

Good progress has been made on the four-mile tunnel during the year. The distance between the lake and shore headings has been diminished by 8,125 lineal feet. On the first day of January, 1892, 4,339 lineal feet remained to be constructed.

LAKE VIEW TUNNEL.

On the first day of January, 1892, 5,313 lineal feet of tunnel had been completed, 1,584 lineal feet of which was constructed during the year, leaving 4,737 feet to complete.

The crib for this tunnel has been set in place at a distance of 10,000 feet from shore.

JEFFERSON STREET TUNNEL.

Jefferson street tunnel was constructed, connecting the old and new tunnels of the two mile and the four-mile crib. It is a seven-foot tunnel and extends from Van Buren street to Harrison street, on Jefferson street, a distance of 625 feet.

THIRTY-FIFTH STREET AND ASHLAND AVENUE TUNNELS.

The Thirty-fifth street tunnel has been constructed under the South fork of the Chicago river at Thirty-fifth street. The Ashland avenue tunnel under the west arm of the South fork and Ashland avenue has also been constructed. Both of these tunnels were built to accommodate water pipe to supply the Stock Yards.

FOURTEENTH STREET PUMPING WORKS.

The Fourteenth street pumping works has been put in condition for work. The plant is completed and the building is practically finished inside and outside.

SIXTY-EIGHTH STREET PUMPING WORKS.

The Sixty-eighth street pumping works are being improved and an addition to the works is in course of erection to accommodate two Holly engines to supply the World's Fair with water. A new five-foot land tunnel about 1,100 feet long has been constructed so that a sufficient supply of water can be obtained.

LAKE VIEW PUMPING WORKS.

The Lake View pumping works has been improved by placing a thirty-inch steel inlet pipe to replace the old wooden box thirty inches square, and in consequence a good supply of water is now being obtained.

PIPE SYSTEM.

Water pipes were laid during the year, as follows :

Four (4) inch.....	7,940 feet.
Six (6) inch.....	485,411 feet.
Eight (8) inch.....	137,301 feet.
Twelve (12) inch.....	23,988 feet.
Fourteen (14) inch.....	5,268 feet.
Sixteen (16) inch.....	10,379 feet.
Twenty-four (24) inch.....	5,154 feet.
Thirty-six (36) inch.....	16,069 feet.
Forty-eight (48) inch.....	30 feet.
Total.....	691,540 feet.

The whole being equal to 130.97 miles. Small pipe taken up and abandoned $\frac{920}{880}$ miles; net pipe added to the system during the year, 130.8 miles; making a total of 1,346.75 miles of water mains laid within the city limits.

Fire hydrants placed in position during the year.....	1,575
Net number of hydrants added to the system.....	1,483

Total number of fire hydrants now in use.....	13,411
Stop valves put in place during the year	1,110
Total number now in use.....	9,739

WATER METERS AND HYDRAULIC ELEVATORS.

Number of new meters put in during the year	341
Number of old meters removed.....	116
Net increase.....	225
Total number of meters now in use.....	4,131
Number of city meters removed and replaced by new ones.....	63
Total number of meters repaired and charged for.....	812
Total number of meters repaired and not charged for.....	766

The revenue derived from water measured by these meters and hydraulic elevators for the past year amounts to \$717,068.05, an increase of \$48,907.95 over the amount collected from the same source last year.

WATER WORKS RECEIPTS AND EXPENDITURES FOR 1891.

RECEIPTS.

Water rates collected (including delinquents).....	\$2,271,729 29
Water service cocks (permits and plumbers' licenses).....	92,733 80
Water meters, labor, etc., for private parties.....	60,099 99
Rent of Rookery lot.....	35,000 04
Advances to lay water pipes.....	182,263 80
Bonds sold.....	1,435,500 00
Interest from investment.....	100 00
Old material sold.....	5,666 48
Miscellaneous.....	756 82
Total....	\$4,083,850 22

EXPENDITURES.

For extension of water pipe system.....	\$1,287,978 28
For water works repairs.....	203,960 75
For water service pipe and tapping department.....	64,846 33
For meter and private work.....	77,768 08
For North pumping works.....	134,865 60
For West pumping works.....	112,651 26
For South Side pumping works.....	187,127 01
For Central pumping works.....	81,976 24
For Sixty-eighth street pumping works	97,993 43
For Lake View pumping works.....	33,755 89

For Washington Heights pumping works.....	\$ 2,703 94
For Lake View water tunnel.....	152,575 43
For Michigan avenue property.....	254 65
For new water tunnel.....	311,770 78
For new lake tunnel crib.....	36,736 74
For new shore inlet extension.....	96,986 02
For lake tunnel crib.....	8,120 46
For interest on water loan.....	326,297 05
For advances for laying water mains refunded.....	35,208 19
For salaries and office expenses.....	239,011 07
For other salaries and office expenses.....	11,759 97
For miscellaneous.....	5,654 34
For Ashland avenue tunnel.....	15,733 70
For Jefferson street tunnel.....	15,968 17
For Sixty-eighth street pumping works extension.....	169 39
For hydrant wrenches refunded.....	350 00
For new land tunnel.....	500 00
Total.....	<u>\$3,542,722 82</u>

Total cost of water works of the city to Dec. 31, 1891, is as follows:

Cost up to May 6, 1861, when the works were transferred from
the Board of Commissioners to the Board of Public Works, \$1,020,160 21

EXPENDITURES SINCE 1861.

Cost of water pipe (including labor).....	\$10,402,847 35
Cost of North pumping works.....	918,573 14
Cost of West pumping works.....	896,849 37
Cost of first lake tunnel.....	464,866 05
Cost of second lake tunnel.....	415,709 36
Cost of lake crib protection.....	149,431 63
Cost of new lake tunnel.....	760,880 57
Cost of land tunnel to West pumping works.....	542,912 63
Cost of new land tunnel.....	284,380 04
Cost of lake tunnel crib.....	70,319 10
Cost of lake shore inlet.....	42,871 17
Cost of new lake shore inlet extension.....	97,702 12
Cost of new lake shore inlet.....	89,474 17
Cost of water works shop.....	25,551 73
Cost of water works stock....	29,318 00
Cost of water reservoir fence.....	1,702 87
Cost of addition to stable.....	1,019 48
Cost of real estate for sites of new pumping works.....	206,972 35
Cost of works annexed territory.....	1,160,164 24

Cost of Central pumping works (account).....	\$ 365,078 07
Cost of Lake View water tunnel (account).....	227,320 54
Cost of South side pumping works (account).....	441,653 34
Cost of new lake crib (account).....	365,860 12
Cost of breakwater.....	28,181 93
Cost of Ashland avenue tunnel.....	15,733 70
Cost of Jefferson street tunnel.....	15,968 17
Cost of Sixty-eighth street pumping works (account).....	19,766 67
Total cost of entire water works to December 31st, 1891..	<u>\$19,061,268 12</u>

Paid for as follows :

From general taxes.....	\$ 2,713,878 53
From City of Chicago water loan bonds, 6 per cent.....	132,000 00
From City of Chicago water loan bonds, 7 per cent.....	2,847,000 00
From City of Chicago water loan bonds, 3 ⁵⁵ / ₁₀₀ per cent.....	333,000 00
From City of Chicago water loan bonds, 4 per cent.....	150,000 00
From City of Chicago water loan bonds, 3 ¹ / ₂ per cent.....	493,000 00
From City of Chicago water loan bonds, canceled.....	859,000 00
From Hyde Park water loan bonds, 5 per cent.....	50,000 00
From Hyde Park water loan bonds, 7 per cent.....	384,000 00
From Town of Lake water loan bonds, 5 per cent.....	179,900 00
From Town of Lake water loan bonds, 7 per cent.....	222,000 00
From Lake View water bonds, 4 per cent.....	50,000 00
From Lake View water bonds, 5 per cent.....	23,000 00
From Lake View water bonds, 7 per cent.....	75,000 00
From water fund investment.....	1,435,500 00
From water fund revenues.....	9,113,989 59
	<u>\$19,061,268 12</u>

Total water works income to December 31st, 1891..... 27,500,511 37

Total operating expenses and maintenance to December 31st,
1891 (including interest \$7,339,056 39 on bonded debt
and bonds canceled)..... 18,084,189 55

Difference between income and expenses..... \$ 9,416,321 82

Accounted for as follows :

Paid towards water works construction.....	\$9,113,989 59
American Exchange National bank.....	116,420 27
J. W. Lyons, cashier.....	1,691 88
J. Hardacre.....	100 00

Meter department, stock on hand.....	\$ 7,699 02	
Shop and stable, stock on hand.....	6,369 33	
Tapping department, stock on hand.....	4,865 99	
City Treasurer.....	225,548 58	
Water pipe, etc., on hand.....	238,954 55	
	<u>\$ 9,715,639 21</u>	
Less amount due depositors for hydrant wrenches.....	\$ 1,796 82	
Less amount advanced to private parties to pay water pipe in non-paying districts.....	297,520 57	
	<u>299,317 39</u>	
	<u>\$9,416,321 82</u>	

BONDED DEBT OF WATER WORKS.

City of Chicago water loan bonds outstanding December 31, 1891,
bearing 7 per cent. interest, and maturing as follows:

July 1, 1892.....	\$ 821,000 00	
July 1, 1894.....	541,000 00	
July 1, 1895.....	1,485,000 00	
	<u>\$2,847,000 00</u>	

Bearing 6 per cent. interest, maturing as follows:

July 1, 1897.....	\$ 50,000 00	
July 1, 1898.....	82,000 00	
	<u>132,000 00</u>	

Bearing $3\frac{5}{8}$ per cent. interest, maturing—

July 1, 1902.....	333,000 00	
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Bearing 4 per cent. interest, maturing—

July 1, 1908.....	150,000 00	
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Bearing $3\frac{1}{2}$ per cent. interest, maturing—

July 1, 1909.....	\$ 159,500 00	
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Bearing 4 per cent. interest, maturing—

July 1, 1910.....	333,500 00	
	<u>493,000 00</u>	

Total.....	<u>\$3,955,000 00</u>	
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DEPARTMENT OF PUBLIC WORKS.

ANNEXED DISTRICTS.

Town of Lake water bonds:

5 per cent. bonds, due April 1, 1892.....	\$ 14,900 00	
5 per cent. bonds, due April 1, 1893.....	15,000 00	
5 per cent. bonds, due April 1, 1894.....	15,000 00	
5 per cent. bonds, due April 1, 1895.....	15,000 00	
5 per cent. bonds, due April 1, 1896.....	15,000 00	
5 per cent. bonds, due April 1, 1897.....	15,000 00	
5 per cent. bonds, due April 1, 1898.....	15,000 00	
5 per cent. bonds, due April 1, 1899.....	15,000 00	
5 per cent. bonds, due April 1, 1900.....	15,000 00	
5 per cent. bonds, due April 1, 1901.....	15,000 00	
5 per cent. bonds, due April 1, 1902.....	15,000 00	
7 per cent. bonds, due January 1, 1894.....	107,000 00	
7 per cent. bonds, due July 1, 1894.....	115,000 00	
		<hr/>
		\$ 386,900 00

Hyde Park water bonds:

5 per cent. bonds, due January 1, 1904.....	\$ 50,000 00	
7 per cent. bonds, due July 1, 1893.....	30,000 00	
7 per cent. bonds, due January 1, 1894.....	23,000 00	
7 per cent. bonds, due January 1, 1895.....	322,000 00	
7 per cent. bonds, due January 1, 1896.....	9,000 00	
		<hr/>
		434,000 00

Lake View water bonds:

5 per cent. bonds, due July 1, 1904.....	\$ 23,000 00	
4 per cent. bonds, due July 1, 1907.....	50,000 00	
7 per cent. bonds, due July 1, 1895.....	75,000 00	
		<hr/>
		148,000 00

Total bonded debt of water works.	\$4,923,900 00
Total interest paid on water loan, to January 1, 1892.....	\$7,339,056 39

The following table indicates the quantity of water furnished, the total revenue received, and the average amount per million gallons annually, from 1858 to 1891, both years inclusive:

YEAR.	MILLION GALLONS FURNISHED.	REVENUE.	REVENUE PER MILLION GALLONS.
1858.....	1,092	\$102,178 85	\$93 57
1859.....	1,415	122,753 50	86 70
1860.....	1,717	131,162 73	76 39
1861.....	1,766	131,035 10	74 15
1862..... (15 months)....	2,705	188,448 25	85 00
1863.. (9 months)....	2,336	192,246 39	82 29
1864.....	2,523	224,902 57	89 14
1865.....	2,778	253,114 49	91 11
1866.....	3,169	302,017 59	95 30
1867.....	4,232	338,929 28	80 08
1868.....	5,375	420,686 94	78 26
1869.....	6,801	476,968 24	70 13
1870.....	7,945	539,180 19	67 86
1871.....	8,423	445,834 64	52 93
1872.....	10,051	544,465 90	54 17
1873.....	11,723	708,804 32	60 46
1874.....	13,903	705,926 64	50 77
1875..... (9 months)....	10,957	635,996 54	58 04
1876.....	15,346	771,940 38	50 30
1877.....	19,047	908,509 64	47 70
1878.....	19,564	944,190 97	48 31
1879.....	20,557	922,001 26	44 85
1880.....	21,002	865,618 35	41 21
1881.....	23,331	936,922 07	40 16
1882.....	24,150	1,049,576 90	43 46
1883..	26,742	1,142,868 54	42 73
1884.....	29,286	1,204,338 74	41 12
1885.....	33,451	1,339,038 00	40 08
1886.....	35,693	1,374,837 32	38 52
1887.....	37,199	1,490,023 68	40 05
1888.....	38,122	1,557,116 78	40 84
1889.....	40,504	1,621,786 34	40 04
1890.....	56,338	2,202,724 58	39 07
1891.....	63,552	2,364,463 09	37 21

SEWERAGE.

The sewerage system has been extended in the various divisions of the city during the year as follows :

Constructed in the West Division.....	54.690 miles.
Constructed in the South Division.....	34.219 miles.
Constructed in the North Division.....	14.674 miles.
Total.....	103.583 miles.
Number of catch-basins built.....	3,979
Number of man-hole chambers built.....	3,736

The cost of constructing sewers and catch-basins during the year was as follows :

West Division.....	\$ 1,014,846 17
South Division.....	358,942 99
North Division.....	159,701 28
Total.....	\$ 1,532,990 44

Total number of catch-basins.....	30,468
Total number of man-hole chambers.....	33,726
Total number of miles of sewer in the city.....	888.320

MAINTENANCE OF SEWERAGE.

The cost of cleaning and repairing sewers, the cost per mile, and number of miles, also the number of catch-basins and man-hole chambers distributed in the three divisions of the city, is as follows :

DIVISIONS.	MILES OF SEWERS.	NUMBER OF CATCH-BASINS.	NUMBER OF MAN-HOLE CHAMBERS.
West.....	373.764	13,321	13,246
South.....	346.465	11,245	13,525
North.....	168.091	5,902	6,955
TOTALS.....	888.320	30,468	33,726

The cost of repairing sewers during the year was \$29,753.04, being an average cost of \$33.49 per mile.

The cost of cleaning was \$123,620.44, making the average cost \$139.16 per mile.

The total cost of both repairs and cleaning was \$153,373.48, an average cost of \$172.65 per mile.

Of the 888.320 miles of sewers constructed, 393.758 miles are of brick, and 494.562 miles of vitrified pipe.

TOTAL COST OF SEWERS, ETC.

DIVISIONS.	MILES.	COST.	AVERAGE COST PER MILE.
West.....	373.764	\$5,570,257 50	\$14,903 14
South.....	346.465	4,607,186 58	13,297 72
North.....	168.091	2,321,050 31	13,808 29
TOTALS.....	888.320	\$12,498,494 39	\$14,069 81

BONDED SEWER DEBT.

Sewer bonds outstanding December 31, 1891, bearing 7 per cent. interest and maturing as follows :

July 1, 1892.....	\$ 490,000 00
July 1, 1894.....	785,000 00
July 1, 1895.....	13,000 00
July 1, 1900, bearing 4½ per cent. interest.....	489,500 00
July 1, 1904, bearing 4 per cent. interest.....	458,000 00
July 1, 1908, bearing 4 per cent. interest.....	387,000 00
Total sewerage debt.....	\$2,622,500 00

RIVER IMPROVEMENT BONDS.

Bonds outstanding December 31, 1891, bearing 7 per cent. interest and maturing as follows:

July 1, 1892.....	\$ 249,000 00
July 1, 1893.....	500,000 00
July 1, 1894.....	346,000 00
July 1, 1895.....	1,263,000 00
July 1, 1910, 4 per cent. bonds.....	250,000 00
Total River Improvement debt.....	\$ 2,608,000 00
Grand total outstanding.....	\$ 5,230,500 00
Total interest paid on Sewerage bonds to January 1, 1892..	\$ 5,169,223 50
Total interest paid on River Improvement bonds to January 1, 1892.....	4,297,985 00
Total interest paid on Water Loan bonds to January 1, 1892.	7,339,056 39
Grand total of interest paid to January 1, 1892.	\$16,806,264 89

RIVER AND HARBOR.

From the record of observations presented in the report of the City Engineer, the water in Lake Michigan and Chicago river has been during the year 1891 lower than at any time since 1854, or probably than at any time in the history of the city. Mean water in Lake Michigan during the year was five hundredths of a foot above datum, while the lowest stage recorded was two and thirty-nine hundredths (2.39) feet below the low water of 1847, which is the plane of city datum.

Investigations in the Engineering Bureau regarding the stage of water in Lake Michigan, from data covering the catchment area or basin of the upper lakes, explain most conclusively the cause of this most remarkable low stage of water. It appears there has been a steady decrease in precipitation with an increase of mean temperature over the basin of the upper lakes since 1884; the slight improvement shown in 1888 and 1890 was not sufficient to stay the downward tendency of mean water in the lake. The decrease in precipitation for 1891 from 1890 is four and eighty-one hundredths (4.81) inches, while the mean temperature increased six-tenths of a degree, and, in consequence, we cannot hope for even as good a condition of water in Lake Michigan in 1892 as that we suffered under during 1891. Unless we have some heavy rains before the frost leaves the ground the navigable condition of the harbor will be much worse this year, for the increase in precipitation in any one year is not felt in the lake condition until the year following, provided the temperature remains the same.

During the year the city expended \$47,445.04 for dredging, removing 260,435 cubic yards of material from the Chicago river. As compared with the cost of dredging for 1890, this shows a saving of 81 per cent., or \$38,700.69 on the cost of the work done in the past year.

Notwithstanding the extremely low condition of water in the lake and river, the commerce of the city has increased 746,847 tons, while the number of vessels decreased 452. The commerce of the city is as follows:

Year 1891.....Arrivals,	9,803 vessels.....	5,439,714 tons.
Year 1891.....Clearances,	9,878 vessels.....	5,423,184 tons.
Totals for year.....	19,681 vessels.	10,862,898 tons.

BRIDGES AND VIADUCTS.

The cost for maintaining these structures for the year was as follows:

For general repairs of bridges and viaducts.....	\$123,109 18
Of this amount there was received for labor and material and from vessels for damages to bridges.....	1,422 13
Net cost to city for repairs of bridges and viaducts.....	\$124,531 31

CANAL PUMPING WORKS.

The Canal pumping works have pumped from the South branch of the Chicago river into the Illinois and Michigan canal an average of 37,771 cubic feet of water per minute for the year. Five boilers have been contracted for at a cost of \$7,400.00, two of which have been in use since December 1, 1891.

Engine No. 4 was thoroughly overhauled at a cost of \$1,500. The cost of operating and maintaining these works during the year was \$72,802.42.

THE OGDEN DAM.

The Ogden dam has undergone extensive repairs and been made serviceable and secure against floods at a cost of \$3,424.10.

STREETS.

During the year streets were improved as follows:

Paved with cedar blocks.....	75.07 miles
Paved with macadam.....	37.21 miles
Paved with granite blocks.....	0.36 miles
Paved with asphalt.....	4.43 miles
Paved with brick.....	0.29 miles
Paved with burnt clay.....	0.23 miles

Total number of miles paved.....117.59 miles

DISTRIBUTION OF KINDS OF PAVEMENT.

The following shows the kind of pavement in use in each division of the city on December 31, 1891:

DIVISIONS.	Wood Block.	Macadam.	Stone.	Asphalt Block.	Sheet Asphalt.	Brick.	Burned Clay.	Grand Total.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
North.....	110.59	43.18	.53	.....	3.11	.....	.....	157.41
South.....	116.49	190.80	21.34	3.59	1.72	.67	.....	334.84
West.....	252.16	22.33	1.47	.....	4.18	.....	.23	280.14
Viaduct Approaches	2.39	.....	.....	.....	.....	.....	.....	2.39
Total Miles.....	481.63	256.31	23.34	3.59	9.01	.67	.23	774.78

Repaving and repairs have been made on improved streets in each division of the city as follows:

South Division.....	35,687 square yards
West Division.....	43,625 square yards
North Division.....	77,309 square yards
Total.....	<u>156,621 square yards</u>

This does not include repaving done by private corporations.

STREET CLEANING.

The past year 5,367.02 miles of streets were cleaned under a contract between the city and J. F. Walsh, for the sum of \$27.50 per mile, at a cost of \$147,593.07. The work was commenced on April 10th and discontinued on November 16th. Before and after the above dates, in addition to removing snow and cleaning intersections, the Department cleaned 1,792.98 miles at a cost of \$70,454.08, making a total of 7,160.50 miles at a cost of \$218,047.15.

STREET RAILWAYS.

During the year the street railway companies paved the portion of the various streets occupied by their tracks, as shown in the following table :

CORPORATIONS.	Granite Blocks, Square Yards.	Cedar Blocks, Square Yards.	Cobble- stone, Square Yards.	Total Square Yards.
Chicago City Railway Co.....	50,727	24,417	.....	77,544
North Chicago St. R. R. Co.....	553	13,366	2,519	16,438
West Chicago St. R. R. Co.	54,666	11,911	8,323	74,900
TOTALS	105,946	49,694	10,842	168,882

The total mileage of tracks in use by the several street railroad companies is :

North Chicago Street Railroad Company.....	81.60 miles
Chicago City Railway Company.....	148.12 miles
West Chicago Street Railroad Company.....	142.89 miles
Calumet Electric Street Railway Company.....	4.05 miles

Cicero and Proviso Electric Railway Company.....	4.80 miles
Chicago & South Side Rapid Transit Company.....	3.30 miles
West Lake Street Elevated Railroad Company.....	1.05 miles
South Chicago City Railway Company.....	5.66 miles
Total.....	391.47 miles

SIDEWALKS.

The following table shows the various kinds of material used in the construction and repair of sidewalks during the year :

DIVISION.	MATERIAL.			Total Miles.	Sidewalks Repaired.	Total Work.
	Wood.	Stone.	Concrete.			
South.....	201.11	15.98	36.09	253.18	75.11	328.29
West	240.16	12.09	11.71	263.96	141.17	405.13
North.....	50.17	12.01	24.65	86.83	29.14	115.97
TOTALS.....	491.44	40.08	72.45	603.97	245.42	849.39

Of the above, there have been built of plank walks 59.60 miles by the city under special assessments.

The total number of miles of sidewalk laid in the city, including those constructed on highways controlled by the Park Commissioners, is as follows :

	MATERIAL.			Total Miles.
	Wood.	Stone.	Concrete.	
City	2,240.05	163.83	75.84	2,479.72
Boulevards to West Parks.....		11.05	.895	11.945
Boulevards to South Parks.....		15.98	3.40	19.38
Boulevards to Lincoln Park.....		2.17	2.05	4.22
Total miles.....	2,240.05	193.03	82.185	2,515.265

Miles of wood sidewalk replaced by stone and concrete..... 33.42

STREET LAMPS.

DIVISION.	OIL LAMPS.					GASOLINE LAMPS.					
	No. in City, Jan. 1, 1891.	Erected during 1891.	TOTAL.	Discontin- ued in 1891.	No. in City, Dec. 31, 1891.	No. in City, Jan. 1, 1891.	Erected during 1891.	TOTAL.	Discontin- ued in 1891.	No. in City, Dec. 31, 1891.	
North, including Lake View...	.....	.....	.....	.....	.....	879	82	461	80	481
South, including Hyde Park, Town of Lake, West Roseland, Gasco and Wash. Heights	162	.....	162	.....	163	5,184	998	6,182	281	5,851
West, including Jefferson and Cicero.	558	3	561	133	428	3,467	572	4,039	357	3,683	
TOTALS.....	720	3	723	133	590	8,980	1,652	10,632	668	9,964	
DIVISION.	GAS LAMPS.					ELECTRIC LIGHTS.					
	No. in City, Jan. 1, 1891.	Erected during 1891.	TOTAL.	Discontin- ued in 1891.	No. in City, Dec. 31, 1891.	No. in City, Jan. 1, 1891.	Erected during 1891.	Discontin- ued in 1891.	Total lights op- era't'd from city plants Dec. 31, '91.	Lighted by Contract.	No. in city Dec. 31, 1891.
North, including Lake View...	5,178	404	5,582	296	5,286	194	7	1	200	200
South, including Hyde Park, Town of Lake and South Chicago.....	7,992	900	8,892	1,008	7,884	800	42	4	388	188	526
West.....	13,089	1,464	14,553	674	13,879	435	22	2	455	455
TOTALS.....	26,259	2,768	29,027	1,978	27,049	929	71	7	993	188	1,181

Total number of Street Lamps in the city, 88,784.

EXPENSE OF LIGHTING.

The following table shows the cost of lighting the city and maintaining lamps during the year ending December 31, 1891, including the cost of extinguishing under schedules adopted by the Council:

Total cost of lighting and maintaining gas lamps.....	\$414,884 74
For material and lighting oil lamps.....	} 182,653 70
For gasoline used by city for maintaining lamps	
For maintaining electric lamps.....	108,126 32
Total cost of lighting the city.....	<u>\$705,664 76</u>

ELECTRIC LIGHTING.

DISTRICTS.	Estimated Number of Electric Lights required to Light respective Districts.	Number of Electric Lamps in service in the respective Districts, February 21st, 1892.	Balance Required.
Number 1.....	500	338	162
Number 2.....	750	.....	750
Number 3.....	600	.....	600
Number 4.....	600	250	350
Number 5.....	500	.....	500
Number 6.....	1,000	307	693
Number 7.....	400	.....	400
Number 8.....	500	98	402
Number 9.....	400	.....	400
Number 10.....	700	.....	700
Number 11.....	800	.....	800
Number 12.....	600	.....	600
TOTAL.....	7,850	998	6,357

From Professor Barrett's report it will be seen that the total number of arc lights placed in position displacing gas lights is 958, the gas lights thus removed numbering 3,894, making an average of one electric light for four gas lamps, with the candle or illuminating power of the electric light greatly exceeding such proportions.

The following table gives the annual extensions of the system from 1887 to the present date, including the total cost of the same:

YEAR.	Number of Power Houses Erected.	Calculated Capacity of Power Houses in 2,000 Candle Power Lights.	Horse Power of Engines installed.	Number of Arc Lights placed in Operation as a result of Appropriation each Year.	Number of Arc Lights Displacing Gas.	Number of Gas Lights Displaced.	Average Number of Gas Lights each Year for each Electric Light.	Average Displacement of Gas for All Years.	Expended for Electric Light Construction and Maintenance.
1887.....	* 1	† 125	125	105	76	.....	.....	.....	\$ 89,976.25
1888.....	* 1	† 300	300	192	192	826	8	4	69,414.25
1889.....	3	3,000	1,500	372	372	1,452	3 ² / ₁₀	....	307,856.62
1890.....	1	850	425	260	260	1,348	5 ¹ / ₁₀	....	189,680.60
1891.....	.....	.....	.....	64	58	273	4 ⁷ / ₁₀	...	108,126.82
	4	3,850	1,925	998	958	3,894	.....	.....	\$665,004.04

* Abandoned. † Moved to Number 1.

Total expenditure for construction and maintenance, \$802,729.58.

There are 993 2,000-C. P. arc lights operated from city plant.

There are 1,100 16-C. P. lamps operated from city plant.

There are 188 2,000-C. P. arc lights operated under contract.

THE CITY ELECTRIC LIGHT SYSTEM COMPRISES:

Power stations.....	4
125-H. P. high speed engines.....	13
300-H. P. Corliss engine.....	1
100-H. P. tubular boilers, heaters, pumps, etc.....	6
125-H. P. tubular boilers, heaters, pumps, etc.....	15
2,000-C. P. double carbon lamps.....	1,225
Lamp posts and hoods.....	993
60-light high tension dynamos.....	7
60-light low tension dynamos.....	4
50-light high tension dynamos.....	1
35-light high tension dynamos.....	11
35-light low tension dynamos.....	6
30-light low tension dynamos.....	10
Miles of electric light cable.....	169
Number of feet of underground conduit.....	12,109
Number of feet of iron pipe laid underground.....	535,035
Number of man-holes.....	291
Number of hand-holes.....	125

SUMMARY OF CITY ELECTRICAL INSPECTION.

LAMPS INSPECTED.		MOTORS INSPECTED.		
ARC.	INCANDESCENT.		INSTALLMENTS WIRED ONLY.	GENERATORS
Year 1891....8,974	Year 1891...87,918	Year 1891.....340	.....	.....
Previous year...10,467	Previous year...102,869	Previous year..828	.....	.....
Total....14,441	Total...190,282	Total.....668	Total...187	Total..191

RE-INSPECTED.

ARC.	INCANDESCENT.	MOTORS.
Year 1891.....2,457	Year 1891 .....18,549	Year 1891.....38
Total.....	Total.....16,006	Total38

STATEMENT OF YEARLY INSPECTION OF ELECTRIC LIGHT LAMPS
FROM FEBRUARY 14, 1884, TO JANUARY 1, 1892.

YEAR.	NO. OF ARC LIGHTS.	NO. INCANDESCENT
1884.....	1,148	1,885
1885.....	329	7,609
1886.....	479	5,225
1887.....	887	5,424
1888.....	2,869	17,717
1889.....	2,623	24,966
1890.....	2,682	39,543
1891.....	8,974	87,918
Totals	14,441	190,282

PARKS.

The cost of maintaining the various parks under the control of this Department during the past year was as follows :

Irving Park.....	\$ 162 25
Lake Park.....	214 50
Ellis Park.....	1,072 15
Douglas Monument Square.....	1,153 94
Aldine Square.....	769 93
Bickerdike Square.....	749 45
Union Square, Green Bay Park and Oak Park.....	880 67
Washington Square.....	2,140 67
Shedd's Park.....	244 26
Gross Park.....	60 50
Jefferson (Town) Park.....	418 67
Total expenditures.....	\$ 8,466 99

The report of the Commissioner of Buildings shows that during the past year 11,805 buildings were erected, extending over an aggregate frontage of 282,672 lineal feet, or over fifty-three miles, at a cost of over \$54,001,800, the same being distributed in the divisions of the city as follows :

DIVISION.	NUMBER BUILDINGS ERECTED.	AGGREGATE FRONTAGE IN FEET.	FRONTAGE IN MILES.	ESTIMATED VALUE.
North.....	501	15,187	2.46	\$4,490,300 00
South.....	1,063	32,322	6.06	20,180,200 00
West.....	3,691	92,898	17.31	12,613,900 00
Hyde Park.....	2,103	48,037	9.05	8,280,100 00
Town of Lake.....	3,008	62,799	11.47	5,503,400 00
Lake View.....	1,439	31,429	5.50	2,953,900 00
GRAND TOTALS.....	11,805	282,672	51.85	\$54,001,800 00

COMPARISON WITH EIGHT PREVIOUS YEARS.

YEAR.	NUMBER BUILDINGS ERECTED.	AGGREGATE FRONTAGE IN FEET.	FRONT- AGE IN MILES.	ESTIMATED VALUE.
1883.....	4,086	85,588	16.2	\$17,500,000 00
1884.....	4,169	98,782	18.6	20,689,600 00
1885.....	4,638	108,850	20.6	19,624,100 00
1886.....	4,664	112,302	21.2	21,324,400 00
1887.....	4,833	115,506	21.8	19,778,100 00
1888.....	4,958	116,419	22.0	20,360,800 00
1889.....	7,590	181,126	34.3	31,516,000 00
1890.....	11,608	266,284	50.4	47,322,100 00
1891.....	11,805	282,672	53.4	54,001,800 00
Totals	58,351	1,367,529	258.5	\$252,116,900 00

There were moved under the supervision of the Department of Public Works 1,377 frame and 148 brick buildings, a total of 1,525. They varied from one to four stories high, and had a frontage of 31,390 lineal feet, or nearly six miles.

CONCLUSION.

The funds appropriated by the Honorable City Council and entrusted to this Department to be expended in the construction and maintenance of public improvements have been applied in a manner to justly, and, without prejudice, meet the demands of each division, and to give to the whole city a faithful and efficient service to the full extent of the financial resources of the Department and the best ability and energy of its officers and employees.

In closing permit me to extend to His Honor Mayor Washburne my thanks and appreciation for his co-operation and support in important matters connected with this Department, and to the Honorable City Council for their uniform courtesy in all official matters.

To the heads of bureaus I desire to express my approbation of the skill and energy displayed in the performance of their respective duties, and notwithstanding the changes incident to a new administration the efficiency of the public service has not been impaired, nor has the city suffered any material or financial loss thereby.

The reports of the Superintendents of the various bureaus which follow will furnish in detail the extent and cost of the improvements and labor accomplished during the year, and are herewith respectfully submitted.

Respectfully,

J. FRANK ALDRICH,
Commissioner.

MISCELLANEOUS DATA—1891.

Chicago covers an area of nearly one hundred and eighty and two-tenths square miles, or.....	115,328 acres
Population of the city.....	1,350,000
Total bonded city indebtedness.....	\$13,545,400.00
Total value of real estate, buildings, etc., owned by the city.	\$37,690,876.24
Assessed valuation of real and personal property.....	\$256,594,574 00
Number of school buildings owned by the city.....	225
Number of rented buildings used for school purposes.....	77
Average number of children attending public schools.....	126,326
Average number of children attending private schools.....	70,558
Number of teachers in public schools.....	3,195
Number of teachers in private schools.....	2,146
Number of churches.....	513
Number of railroads entering the city.....	35
Number of miles of surface track of railroads entering the city	1,429
Number of street car companies.....	8
Number of miles of street railway tracks.....	395.47
Number of miles of cable street railways.....	68
Number of police station buildings.....	37
Number of patrol barns.....	15
Number of horses in use.....	179
Number of patrol wagons.....	15
Number of ambulances	2
Number of men on force.....	2,298
Number of miles of telegraph wire in use.....	640
Number of engine and hook and ladder houses.....	99
Number of fire engines.....	72
Number of fire boats.....	3
Number of hook and ladder trucks.....	28
Number of chemical fire engines.....	23
Number of firemen employed	998
Number of horses used in Department.....	421
Number of police and fire alarm boxes.....	1,917
Number of miles of telegraph wire in use.....	460
Number of miles of electric wire used by the city.....	1,060
Number of electric lights for city purpose.....	993
Number of acres in public park system	2,597.75
Number of miles of drives and walks in parks and boulevards	95.43
Number of miles of streets in city.....	2,332.01
Number of miles of paved streets.....	774.78

Number of miles of sidewalks.....	2,837
Number of miles of sewers.....	888
Number of miles of water mains.....	1,346.75
Number of miles of water tunnels in use.....	9.05
Number of miles of water tunnels in process of construction.....	8
Number of river traffic tunnels.....	2
Number of bridges over the Chicago river.....	53
Number of bridges over the Calumet river.....	5
Number of bridges over the Illinois & Michigan canal.....	3
Number of viaducts over railroad tracks.....	31
Number of street lamps in city.....	70,076
Number of miles of river frontage.....	41
Number of buildings erected.....	11,805
Estimated cost of buildings erected.....	\$54,000,000
Number of vessels arriving during the year.....	10,224
Number of vessels departing during the year.....	10,294
Representing tonnage of.....	11,031,553
Number of vessel-towing tugs.....	39
Number of feet of lumber received.....	2,046,796,000
Number of feet of lumber shipped.....	870,931,000
Number of shingles received.....	304,787,000
Number of shingles shipped.....	99,132,000
Number of bushels of grain received.....	211,496,653
Number of barrels of flour received.....	4,516,617
Number of hogs received.....	8,600,805
Number of cattle received.....	3,250,359
Number of sheep received.....	2,158,537
Number of pounds of cured and dressed beef received.....	311,960,733
Number of pounds of cured and dressed beef shipped.....	1,628,983,737
Bank clearings for the year.....	<u>\$4,456,885,230</u>

POST OFFICE.

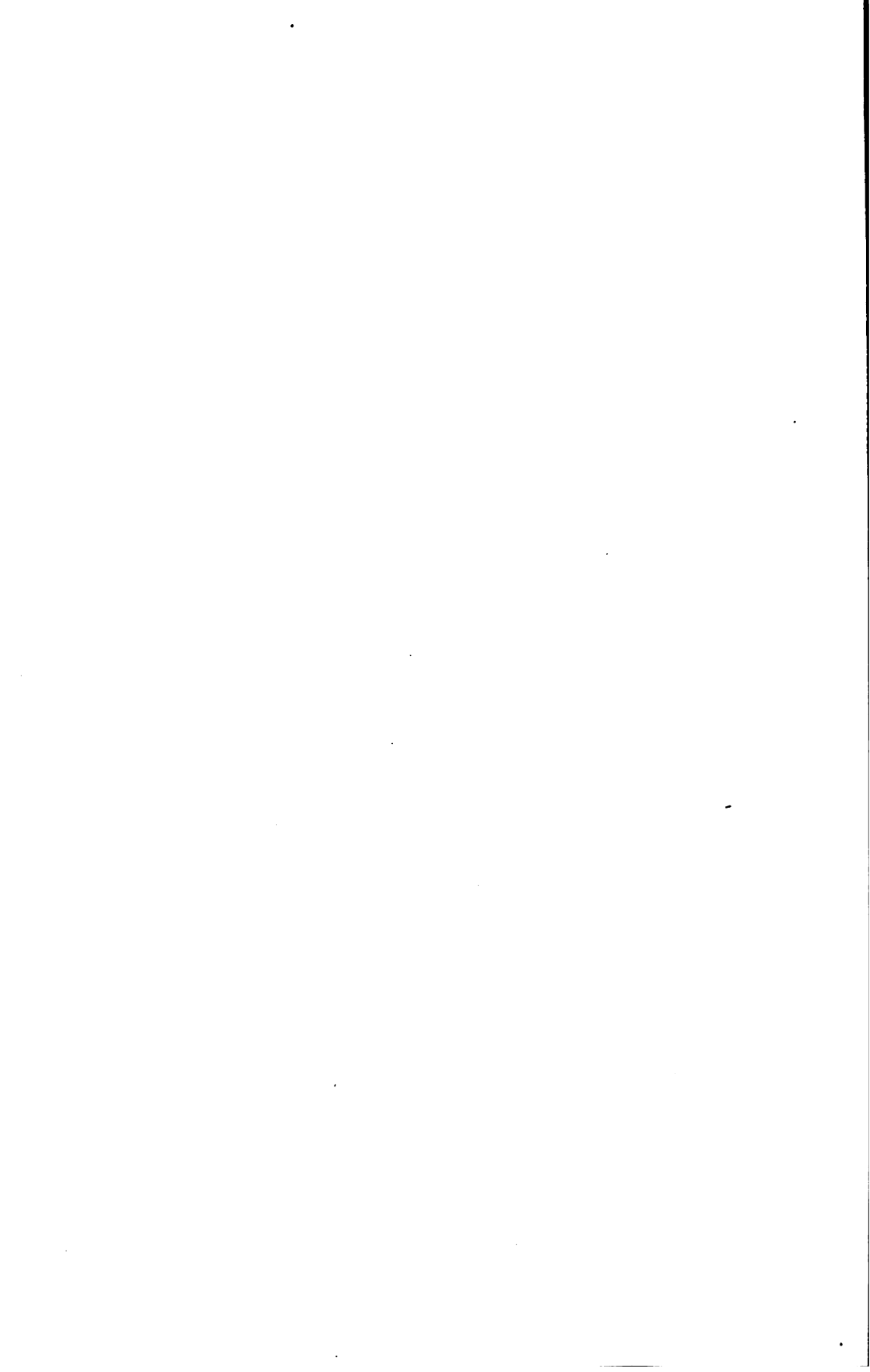
Receipts from cards, stamps and envelopes.....	\$3,693,877 50
Money orders, amount received and disbursed.....	\$20,396,166 00
Registry of mails.....	3,265,538
Number of pieces of mail handled.....	299,073,850
Number of wagons in use for conveying mails to and from depots.....	56
Number of mail wagons collecting from boxes.....	50
Number of clerks employed.....	852
Number of carriers employed.....	769
Number of horses in use.....	119

REPORT

OF THE

Bureau of Engineering

CITY OF CHICAGO



CITY ENGINEER'S REPORT.

CHICAGO, February 15, 1892.

J. FRANK ALDRICH, Esq.,

Commissioner of Public Works.

DEAR SIR:—I have the honor to submit herewith the annual report of the City Engineer's office for the year 1891.

The subject matter is treated under the following main headings, viz.:

1. Harbor.
2. Bridge and Viaduct Construction.
3. Bridge and Viaduct Repairs.
4. Main Sewerage Works.
5. Water Pipe Extension and Maintenance and Meter Service.
6. Water Works Operation and Construction.

HARBOR.

Mr. Ricard O. S. Burke is the engineer in charge of dredging, docking and surveys.

W. H. B. Deane is the Harbor Master, and Richard Powers is the Vessel Despatcher.

During the year the following work was done under contracts and under special orders from the Commissioner of Public Works:

Sec. 1.....	6,498	yards.....	\$ 974 70
“ 2.....	20,115 $\frac{1}{8}$	“	3,017 30
“ 3.....	9,490	“	1,803 10
“ 4	14,995	“	2,999 00
“ 5.....	23,078	“	4,384 82
“ 8.....	31,509	“	7,247 07
“ 9.....	52,487	“	9,972 50
“ 10.....	17,684	“	2,652 60
“ 11.....	5,526	“	994 68
“ 12.....	20,060	“	3,960 39
“ 13.....	58,993	“	9,438 88
<hr/>			
Totals.....	260,435 $\frac{1}{8}$	yds	\$47,445 04

which gives a little less than eighteen and one-quarter ($18\frac{1}{4}$) cents per cubic yard for the total work. Of this 257,276 cubic yards at a cost of \$46,756.58 were done under contracts. Comparing this work and cost with the work and cost of last year gives a net saving on this year's work of $14\frac{33}{100}$ cents per cubic yard, amounting for the whole work to a saving of \$38,700.69, or a little over 81 per cent. of the actual cost of the work.

Private dredging to the amount of three hundred and thirty-nine thousand (339,000) cubic yards was done by the local companies during the year.

For the building, renewal and repairing of docks seventy-nine (79) permits were issued.

The city expended for the repairs of docks at street ends and other places, \$1,431.46.

The following tables, compiled from the records of the Bureau, show mean water in Lake Michigan by years from 1854 to 1891, both inclusive, and the stages of water in the Chicago river and Lake Michigan, observed at Chicago avenue pipe yard and the old two-mile crib respectively, for every month of the year 1891, with a comparison of the conditions at the Chicago avenue pipe yard and the two-mile crib. The latter table shows the dates and amounts of greatest daily range in each month.

Special attention is called to the very low stage of water in Lake Michigan during the year.

TABLE SHOWING MAXIMUM, MINIMUM AND MEAN WATER IN LAKE MICHIGAN ANNUALLY, FROM 1854 TO 1891, BOTH INCLUSIVE:

Year.	Max.	Min.	Mean.	Year.	Max.	Min.	Mean.
1854.....	.....	.....	1.83	1873.....	2.70	-0.76	1.40
1855.....	3.45	0.15	1.56	1874.....	2.80	-0.20	1.67
1856.....	3.05	0.42	1.60	1875.....	3.01	-0.34	1.45
1857.....	4.35	0.60	2.42	1876.....	4.31	0.34	2.56
1858.....	4.69	1.33	2.	1877.....	3.56	1.04	2.31
1859.....	4.45	1.31	2.98	1878.....	3.14	0.51	2.00
1860.....	3.53	1.30	2.54	1879.....	2.51	-0.49	1.06
1861.....	4.40	1.20	2.56	1880.....	2.81	-0.99	1.16
1862.....	3.30	0.70	2.50	1881.....	3.01	-2.19	1.26
1863.....	3.30	-0.80	2.10	1882.....	3.01	-0.99	2.00
1864.....	2.80	-0.40	1.57	1883.....	3.31	-0.99	2.10
1865.....	3.66	-1.08	1.30	1884.....	3.31	-0.01	2.24
1866.....	2.50	0.00	1.07	1885.....	3.71	-0.01	2.48
1867.....	2.60	-0.41	1.49	1886.....	4.41	0.01	2.64
1868.....	2.58	-1.00	1.01	1887.....	3.11	0.01	1.96
1869.....	2.13	0.41	1.13	1888.....	3.01	0.01	1.30
1870.....	3.25	-0.30	2.09	1889.....	2.51	-0.79	0.77
1871.....	2.80	-0.40	1.77	1890.....	2.21	-0.99	0.63
1872.....	1.80	-0.74	0.81	1891.....	1.61	-2.39	0.05

TABLE SHOWING HIGHEST, LOWEST, AND MEAN WATER BY MONTHS DURING YEAR 1891, IN CHICAGO RIVER AND LAKE MICHIGAN, WITH COMPARISON AND GREATEST DAILY RANGE:

MONTHS	CHICAGO RIVER AT CHICAGO AV. PIPE YARD.			LAKE MICHIGAN.			MEANS COMPARED.			GREATEST DAILY RANGE.	
	Max.	Min.	Mean.	Max.	Min.	Mean.	River.	Lake.	River over Lake.	Feet.	Date.
	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.		
Jan.	1.48	-0.38	0.58	1.61	-1.58	0.06	0.58	0.06	0.47	2.8	Jan. 19
Feb.	0.68	-0.07	0.81	0.71	-0.99	-0.11	0.81	-0.11	0.42	1.2	Feb. 5
March ..	1.00	-0.07	0.54	0.61	-1.89	0.07	0.54	0.07	0.47	1.5	Mar. 15
April ...	1.20	0.57	0.88	0.71	-0.09	0.27	0.88	0.27	0.61	0.4	April 10
May	1.40	0.68	0.96	0.71	0.01	0.88	0.96	0.88	0.58	0.4	May 4
June	1.40	0.88	1.10	1.21	0.21	0.53	1.10	0.58	0.57	0.4	June 4
July. ...	1.70	0.67	0.98	1.01	0.11	0.43	0.98	0.43	0.55	0.4	July 2
August..	1.07	0.60	0.80	1.01	0.11	0.41	0.80	0.41	0.39	0.8	Aug. 21
Sept.	0.87	0.17	0.64	1.81	-0.49	0.18	0.64	0.18	0.46	0.8	Sept. 9
Oct.	0.70	-0.40	0.32	0.91	-0.89	-0.17	0.22	-0.17	0.39	.06	Oct. 17
Nov.	0.40	-1.30	-0.19	0.01	-1.79	-0.64	-0.19	-0.64	0.45	1.1	Nov. 4
Dec.	0.43	-1.07	-0.38	0.51	-2.39	-2.76	-0.88	-0.76	0.88	1.2	Dec. 1
Means, annual. . .			0.58			0.05			0.48		

Table showing precipitation and mean temperature in inches and degrees Fahrenheit over the basin of the upper lakes, and mean water in Lake Michigan in inches by years from 1871 to 1891, both inclusive, with the annual increase or decrease :

YEAR.	BASIN OF UPPER LAKES.						LAKE MICHIGAN.		
	PRECIPITATION.	DIFFERENCE WITH PRECEDING YEAR.		MEAN TEMPER'E	DIFFERENCE WITH PRECEDING YEAR.		LEVELS OF MEAN WATER.	DIFFERENCE WITH PRECEDING YEAR.	
		Inches.	Increase.		Decrease.	Degrees.		Increase.	Decrease.
1871	28.56	....	....	47.1	....	....	21.24	....	....
1872	29.68	1.12	....	43.9	....	3.2	9.62	....	11.62
1873	31.95	2.27	....	44.2	0.3	....	16.80	7.18	....
1874	29.69	....	2.26	45.8	1.6	....	20.04	3.24	....
1875	33.81	4.12	....	41.9	....	3.9	17.40	....	2.64
1876	39.13	5.32	....	44.7	2.8	....	30.72	13.32	....
1877	36.11	....	3.2	47.2	2.5	....	27.72	....	3.00
1878	37.92	1.81	....	49.3	2.1	....	24.00	....	3.72
1879	35.12	....	2.80	46.6	....	2.7	12.72	....	11.28
1880	36.36	3.24	....	47.0	0.4	....	13.92	1.20	....
1881	43.66	5.30	....	46.6	....	0.4	15.12	1.20	....
1882	37.85	....	5.81	47.0	0.4	....	24.00	8.88	....
1883	34.82	....	3.03	42.4	....	4.6	25.20	1.20	....
1884	37.34	2.52	....	44.5	....	2.1	26.88	1.68	....
1885	33.47	....	3.87	42.1	....	2.4	28.56	1.68	....
1886	30.15	....	3.32	44.4	2.3	....	31.68	3.12	....
1887	27.91	....	2.24	44.3	....	0.1	23.52	....	8.16
1888	29.27	1.36	....	43.1	....	1.2	15.60	....	7.92
1889	28.28	....	0.99	45.8	2.7	....	9.24	....	6.36
1890	34.45	6.17	....	46.1	0.3	....	7.56	....	1.68
1891	29.64	....	4.81	46.7	0.6	...	0.60	....	6.96

Means, for twenty-one years, 33.67 inches; 45.3 degrees; 1.6 feet.

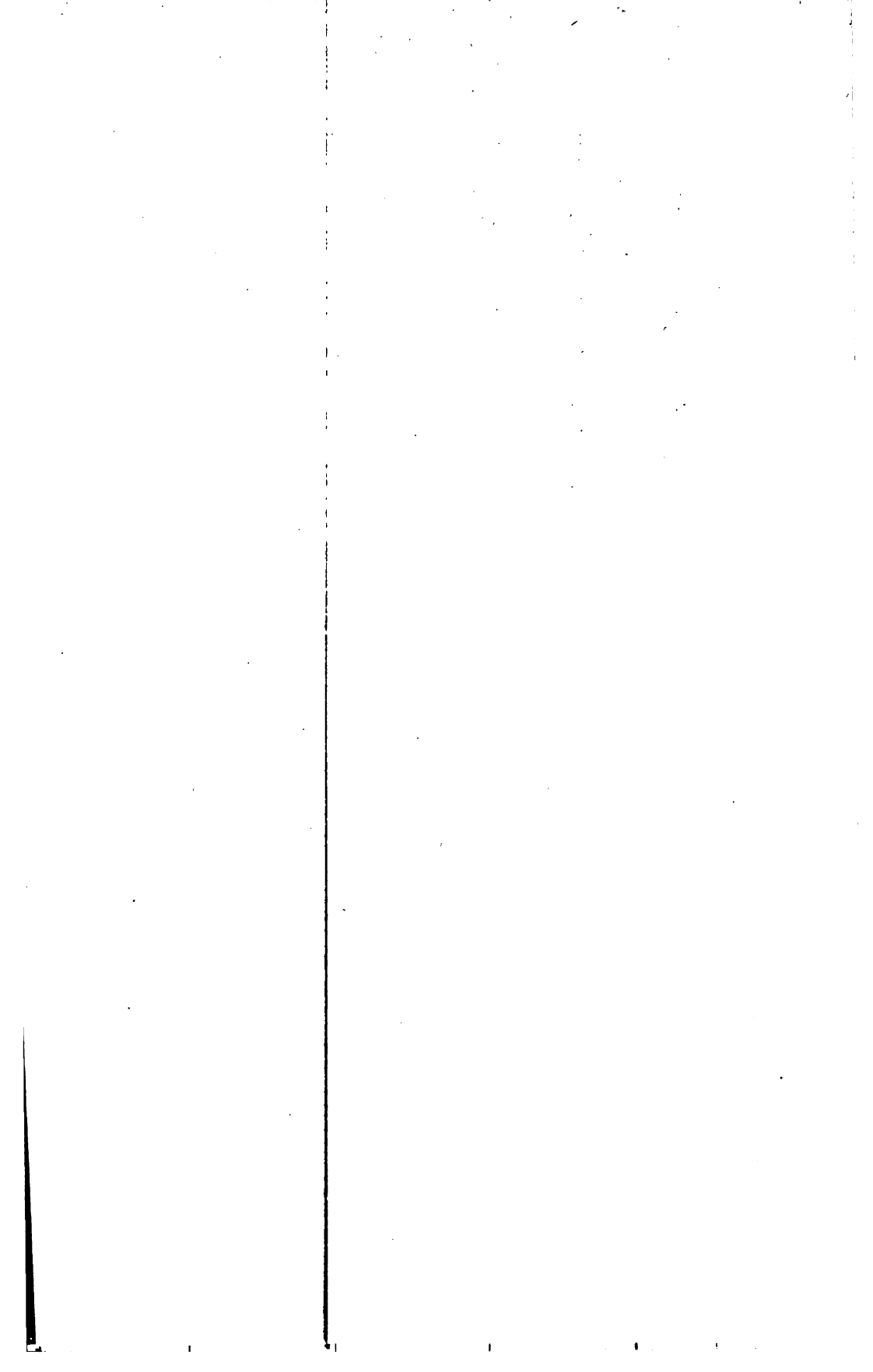
An increase of precipitation in any year over its next preceding one, with no change or but a slight one in mean temperature, affects the following year generally. The years 1881-1882 are good instances. In 1881 the precipitation increased $5\frac{3}{10}$ inches over that of 1880 and the mean temperature fell $\frac{4}{10}$ of one degree, the mean water of the lake going from 15.12 inches in 1881 to 24.00 inches in 1882, above datum, notwithstanding that in the latter year there was a decrease of over $5\frac{3}{10}$ inches in precipitation, with a very slight increase of mean temperature. In the year 1883 there was a decrease in precipitation of $3\frac{3}{10}$ inches over that for 1882, but the table shows an increase in the mean level of the lake. Why? The table shows that during the year 1883 the mean temperature had fallen $4\frac{6}{10}$ degrees below that for 1882, thereby decreasing the volume evaporated from the vast area of the lake surface to such an extent as to overcome the normal effect of the decrease

in precipitation. This effect of temperature over the lake basin is a most important one, as already shown. An examination of the year 1878 will yield additional evidence. We find in the table a precipitation of 37.92 inches, or an increase of $1\frac{8}{10}$ inches over 1887, the mean temperature being $49\frac{3}{10}$ degrees (the highest of any year from 1871 to 1891), an increase of $2\frac{1}{10}$ degrees over the preceding year (which in itself was nearly 2 degrees higher than the normal of 21 years); we find this high mean temperature by its great evaporation overcome the effect of the increase in precipitation and reduce the lake from 24.00 inches in 1878 to 12.72 inches in 1879. Although the precipitation of 1885 is below the normal of 21 years, and $3\frac{8}{10}$ inches lower than that for 1884, the extremely low mean temperature of 1885 being $2\frac{4}{10}$ degrees lower than the preceding year increases the lake level about 3 inches over the previous.

The stage of water in Lake Michigan during the past year has been the lowest in the history of the city. The level of the lake during the year was below datum for one hundred and thirty days (130) days, as against 31 days in 1890, and during a total of three hundred and thirty-five (335) days the level of the lake went no higher at any time than six (6) inches above datum, as against one hundred and sixty-five (165) days in 1890.

From the preceding table no hope can be drawn for any improvement of the harbor conditions for the year 1892 unless we have heavy precipitation before the frost is out of the ground, so that it will pass directly into the lake, or the temperature over the basin of the upper lakes falls materially. A combination of these two conditions would yield a better result. An annual precipitation of about thirty-six (36) inches over the catchment area of the upper lakes would, it appears, at a constant normal temperature, keep the lake at about level from year to year.

The Board of Trade reports, and the kindness of Capt. J. M. Clark, Collector of the Port, of the Commissioners of the Illinois & Michigan canal, and of the local officers of the Weather Bureau, furnished the data for the compilation of the following diagram and series of tables :

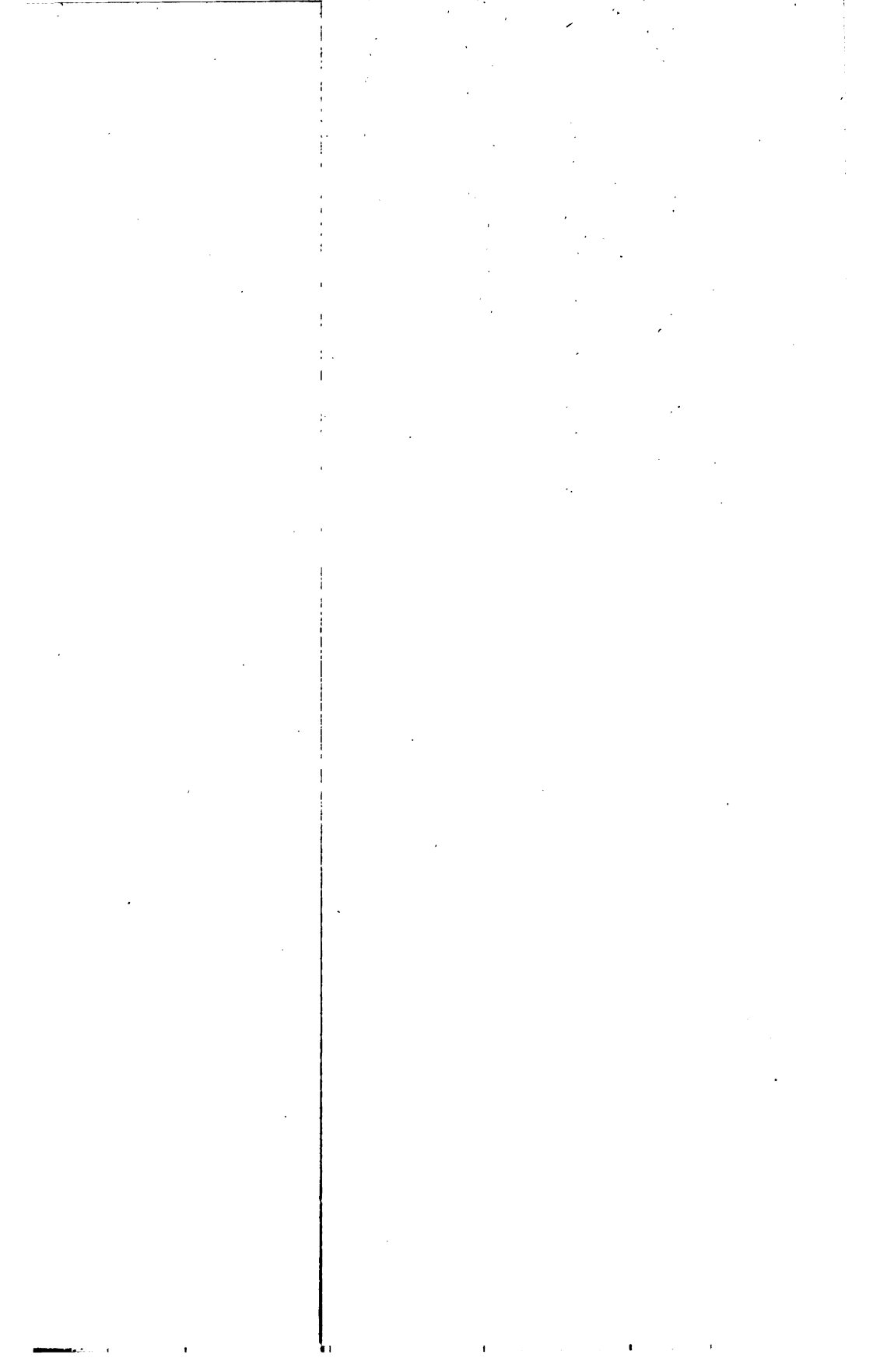


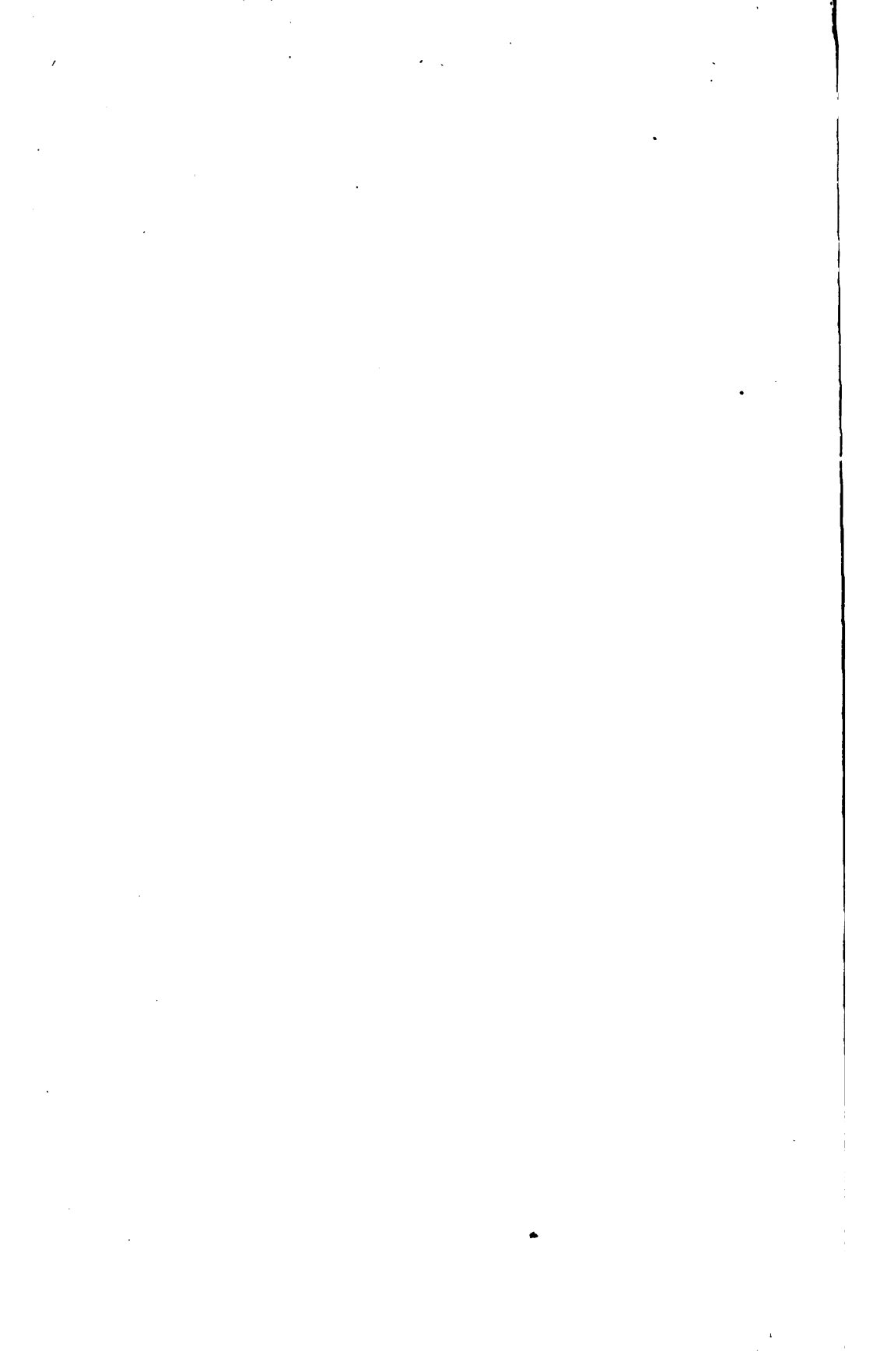
in precipitation. This effect of temperature over the lake basin is a most important one, as already shown. An examination of the year 1878 will yield additional evidence. We find in the table a precipitation of 37.92 inches, or an increase of $1\frac{31}{100}$ inches over 1887, the mean temperature being $49\frac{3}{8}$ degrees (the highest of any year from 1871 to 1891), an increase of $2\frac{1}{8}$ degrees over the preceding year (which in itself was nearly 2 degrees higher than the normal of 21 years); we find this high mean temperature by its great evaporation overcome the effect of the increase in precipitation and reduce the lake from 24.00 inches in 1878 to 12.72 inches in 1879. Although the precipitation of 1885 is below the normal of 21 years, and $3\frac{47}{100}$ inches lower than that for 1884, the extremely low mean temperature of 1885 being $2\frac{4}{8}$ degrees lower than the preceding year increases the lake level about 3 inches over the previous.

The stage of water in Lake Michigan during the past year has been the lowest in the history of the city. The level of the lake during the year was below datum for one hundred and thirty days (130) days, as against 31 days in 1890, and during a total of three hundred and thirty-five (335) days the level of the lake went no higher at any time than six (6) inches above datum, as against one hundred and sixty-five (165) days in 1890.

From the preceding table no hope can be drawn for any improvement of the harbor conditions for the year 1892 unless we have heavy precipitation before the frost is out of the ground, so that it will pass directly into the lake, or the temperature over the basin of the upper lakes falls materially. A combination of these two conditions would yield a better result. An annual precipitation of about thirty-six (36) inches over the catchment area of the upper lakes would, it appears, at a constant normal temperature, keep the lake at about level from year to year.

The Board of Trade reports, and the kindness of Capt. J. M. Clark, Collector of the Port, of the Commissioners of the Illinois & Michigan canal, and of the local officers of the Weather Bureau, furnished the data for the compilation of the following diagram and series of tables :





COMMERCE BY LAKE AND CANAL—CITY OF CHICAGO, FROM YEARS 1871
TO 1891, BY YEARS—WITH POPULATION.

Year.	VESSELS BY LAKE.			BY ILL. & MICH. CANAL.			POPULATION.
	Total No.	Total Tonnage.	Average Cargo, Ton.	Boats. No.	Tonnage.	Tolls. Dollars.	
1871	24,632	6,178,336	251	186	629,975	\$ 159,050	334,270
1872	25,355	6,077,542	239	173	783,841	165,874	367,396
1873	23,734	6,564,542	239	172	849,533	166,641	380,000
1874	21,547	6,329,711	294	152	712,020	144,831	395,400
1875	21,095	6,279,055	298	142	676,025	107,081	407,000
1876	19,245	6,167,736	320	145	691,943	113,293	420,000
1877	20,517	6,585,415	321	145	605,912	96,913	439,776
1878	20,984	7,239,673	345	140	598,792	84,330	450,000
1879	23,873	7,757,395	325	136	669,559	89,064	475,000
1880	25,520	9,154,351	345	133	751,360	92,296	503,298
1881	26,005	8,762,247	337	133	826,133	85,130	540,000
1882	26,977	9,754,949	362	132	1,011,287	85,947	560,693
1883	23,982	7,793,337	325	132	925,575	77,975	580,000
1884	22,826	7,508,696	330	134	956,721	77,102	630,000
1885	21,542	7,306,222	339	135	827,355	66,800	664,634
1886	22,372	7,877,080	352	130	808,019	62,516	704,000
1887	23,972	8,749,852	365	132	742,074	58,025	760,000
1888	22,095	8,890,658	402	127	751,055	56,028	830,000
1889	21,788	10,267,831	471	114	917,047	65,305	1,100,000
1890	20,133	10,116,051	502	104	742,392	55,111	1,200,000
1891	19,681	10,862,898	552	97	641,156	49,457	1,320,000

STATEMENT SHOWING THE MAXIMUM, MINIMUM AND MEAN TEMPERATURES AT CHICAGO, ILL., FOR EACH DAY OF THE YEAR 1891.

DATE.	JANUARY.			FEBRUARY			MARCH.			APRIL.			MAY.			JUNE.		
1891.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
1.....	54	36	45	35	25	30	26	9	18	50	37	44	59	50	54	76	51	68
2.....	23	18	20	39	23	31	27	17	22	42	36	39	60	39	50	55	48	53
3.....	27	18	22	13	-2	6	30	22	26	31	25	28	52	39	46	84	52	68
4.....	31	20	26	14	-8	3	26	7	16	28	23	26	42	35	38	27	44	46
5.....	33	21	27	40	10	25	34	18	26	37	25	31	46	36	41	54	46	50
6.....	34	26	30	42	28	35	34	23	28	36	28	32	44	38	41	57	49	53
7.....	32	22	27	38	34	36	30	26	28	37	33	35	69	41	55	63	50	56
8.....	33	26	30	34	29	32	37	28	32	37	31	34	75	50	62	64	53	58
9.....	34	28	31	36	21	28	25	17	21	40	33	36	81	54	68	75	53	64
10.....	38	30	34	31	9	20	49	17	33	52	39	46	62	42	52	79	66	72
11.....	35	24	30	43	22	32	48	27	38	48	36	42	57	42	50	68	63	66
12.....	32	25	28	46	29	38	28	14	21	49	40	44	66	50	58	72	59	66
13.....	31	10	20	39	32	36	24	17	20	74	44	59	71	53	62	73	62	68
14.....	33	22	28	49	29	39	21	7	14	54	39	46	67	45	56	84	66	75
15.....	38	22	30	54	33	44	45	14	30	44	35	40	78	48	63	85	68	76
16.....	34	24	29	48	35	42	30	25	28	61	38	50	44	36	40	87	70	78
17.....	28	24	26	38	32	35	57	26	42	72	51	62	54	41	48	63	54	58
18.....	29	21	25	22	11	16	35	32	34	70	53	62	68	47	58	65	56	60
19.....	43	24	34	32	21	26	34	28	31	49	41	45	72	55	64	70	61	66
20.....	41	33	37	42	29	36	37	31	34	62	41	52	74	58	66	65	59	62
21.....	37	32	34	34	26	30	36	33	34	70	49	60	72	50	61	77	59	68
22.....	34	30	32	32	14	23	44	34	39	71	54	62	46	43	44	76	63	70
23.....	30	26	28	53	30	42	43	35	39	66	41	54	51	44	48	77	69	73
24.....	27	19	23	58	44	51	32	32	32	48	39	44	59	44	52	84	67	76
25.....	38	21	30	27	19	23	37	31	34	57	43	50	59	42	50	88	70	79
26.....	34	28	31	22	12	17	34	33	33	75	45	60	48	41	44	70	62	66
27.....	40	30	35	24	11	18	35	32	34	67	54	60	57	44	50	78	60	69
28.....	37	32	34	14	4	9	38	33	36	49	43	46	59	50	54	82	65	74
29.....	46	34	40	.....	.....	.....	50	34	42	72	45	58	60	51	56	80	65	72
30.....	40	28	34	.....	.....	.....	52	39	46	70	59	64	63	52	58	68	55	62
31.....	39	32	36	.....	.....	.....	43	40	42	.....	.....	.....	80	58	69	.....	.....	.....
Means.....	35.0	25.4	30.2	35.7	21.5	28.6	36.2	25.1	30.6	53.9	40.0	47.0	61.1	45.7	53.4	72.2	59.2	65.7

STATEMENT SHOWING THE MAXIMUM, MINIMUM AND MEAN TEMPERATURES AT CHICAGO, ILL., FOR EACH DAY OF
THE YEAR 1891—CONTINUED.

DATE.	JULY.			AUGUST.			SEPT.			OCTOBER.			NOV.			DEC.		
1891.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
1.....	70	55	62	76	64	70	72	59	66	78	57	68	40	28	34	40	24	32
2.....	71	58	64	66	63	64	84	63	74	86	64	75	43	35	39	45	35	40
3.....	72	56	64	69	62	66	59	53	56	84	66	75	44	31	38	56	43	50
4.....	73	59	66	70	61	66	61	56	58	58	50	52	46	33	40	38	31	34
5.....	73	55	64	77	64	70	63	58	60	59	40	50	49	37	43	39	33	36
6.....	68	62	65	87	64	76	70	54	62	60	47	54	53	35	44	32	26	29
7.....	64	56	60	91	68	80	62	59	60	57	47	52	60	45	52	19	10	14
8.....	61	55	58	94	71	82	66	54	60	58	48	53	57	48	52	39	16	28
9.....	69	58	64	96	73	84	69	55	62	58	47	52	48	44	46	42	32	37
10.....	74	60	67	82	68	75	71	58	64	63	46	54	45	40	42	44	32	38
11.....	84	63	74	82	68	75	74	58	66	58	51	54	44	35	40	42	36	39
12.....	87	65	76	70	59	64	71	65	68	58	45	52	43	32	38	44	30	37
13.....	85	69	77	73	62	68	72	57	64	67	42	54	32	25	28	50	34	42
14.....	74	65	70	78	66	72	81	56	68	50	41	46	36	28	32	57	43	50
15.....	72	57	64	74	67	70	76	65	70	46	38	42	60	32	46	55	34	44
16.....	81	62	72	78	67	72	89	62	76	60	36	48	37	32	34	36	28	32
17.....	80	65	72	84	70	77	90	68	79	56	45	50	17	8	12	30	16	23
18.....	64	60	62	86	69	78	88	71	80	54	44	49	26	9	18	34	24	29
19.....	73	56	64	81	72	76	87	70	78	45	38	42	34	21	28	38	26	32
20.....	72	62	67	82	70	76	89	67	68	58	37	48	40	31	36	46	27	36
21.....	78	62	70	74	63	68	76	69	72	52	43	48	52	40	46	53	36	44
22.....	86	71	78	66	58	62	82	69	76	48	33	40	43	37	40	42	37	40
23.....	82	68	75	64	55	60	86	71	78	64	38	51	39	34	36	44	35	40
24.....	68	60	64	63	54	58	91	71	81	56	48	52	29	20	24	44	36	40
25.....	69	58	64	75	53	64	80	70	75	73	46	60	34	20	27	52	34	43
26.....	66	59	62	73	60	66	77	67	72	68	50	59	40	27	34	16	9	12
27.....	73	58	66	65	58	62	87	68	78	44	36	40	31	21	26	36	12	2
28.....	74	56	65	63	49	56	79	66	72	56	37	46	13	7	10	48	29	38
29.....	76	65	70	68	53	60	62	48	55	72	44	58	19	3	11	40	32	36
30.....	64	60	62	69	52	60	66	55	60	68	52	60	29	8	18	43	27	35
31.....	71	61	66	65	55	60	....	....	....	52	42	47	....	....	....	46	36	41
Means	73.4	60.5	67.0	75.5	62.5	69.0	78.0	62.1	69.0	60.0	45.1	52.6	39.4	28.2	33.8	41.6	29.1	35.4

PRECIPITATION AT CHICAGO, ILL., FOR EACH MONTH AND YEAR FROM
JANUARY, 1871, TO DECEMBER, 1891, INCLUSIVE.

YEAR.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1871	4.13	1.45	2.66	3.70	3.90	5.56	2.52	2.01	0.74	.....	3.62	3.44	.....
1872	0.68	0.84	3.79	3.03	3.24	3.45	3.09	2.59	6.43	0.65	1.06	0.22	29.07
1873	2.56	0.47	0.89	6.22	7.20	1.44	4.04	1.58	3.53	2.43	1.61	4.44	36.41
1874	3.47	1.51	2.15	2.67	2.08	3.25	0.53	3.15	3.76	2.55	2.83	0.63	28.63
1875	0.96	1.99	1.43	2.33	3.64	5.17	7.18	3.29	4.39	4.32	0.75	2.62	88.06
1876	3.22	3.90	4.04	2.07	1.85	5.96	3.11	3.66	3.74	1.20	3.25	0.43	36.43
1877	1.91	0.06	5.37	2.42	1.81	6.04	2.98	3.06	2.02	6.51	6.06	2.75	41.01
1878	1.31	2.12	4.39	5.57	5.22	3.02	6.09	3.66	1.99	5.17	0.83	2.53	41.95
1879	0.54	1.47	2.37	1.93	3.89	3.18	5.53	0.45	1.18	2.72	4.93	2.47	30.71
1880	3.53	2.91	2.25	5.20	4.97	3.50	3.07	4.47	2.25	3.19	0.87	1.11	37.33
1881	0.87	5.98	2.99	1.84	1.85	5.93	4.31	0.54	4.34	6.89	5.97	2.67	44.13
1882	1.55	2.24	3.43	6.72	5.52	5.71	3.43	4.96	0.91	3.40	1.43	1.99	41.34
1883	1.74	4.74	0.42	3.72	7.32	5.61	5.53	1.21	1.36	7.36	5.26	1.59	45.86
1884	1.39	3.27	5.16	3.05	1.53	2.11	3.71	2.50	2.29	3.59	1.80	4.21	34.61
1885	3.18	2.01	0.57	4.00	3.17	5.20	2.44	11.23	2.97	3.87	2.33	3.35	44.37
1886	3.56	1.51	1.79	1.29	1.00	0.94	1.53	3.38	6.93	1.42	1.66	1.76	26.77
1887	3.13	5.10	0.89	0.46	1.33	1.63	1.06	3.35	4.03	2.03	2.41	3.67	29.13
1888	1.56	1.51	2.99	2.13	6.22	1.66	3.93	2.10	0.98	2.95	2.89	1.94	30.86
1889	1.64	1.31	1.43	2.35	5.38	2.93	9.56	0.39	2.75	1.82	3.49	1.90	34.95
1890	2.98	2.42	2.10	3.23	5.13	3.25	2.57	2.53	1.89	4.30	1.59	1.25	32.69
1891	1.99	1.95	2.13	3.14	2.09	2.42	2.47	4.52	0.32	0.36	3.33	1.32	26.54
Sums	45.90	43.76	53.24	67.06	73.39	77.96	73.77	64.73	53.30	*66.63	53.54	46.39	*710.94
Means	2.19	2.32	2.54	3.19	3.73	3.71	3.75	3.06	2.78	*3.33	2.79	2.21	*35.55

*20 years only. Remainder for 21 years.

STATEMENT SHOWING THE AMOUNT OF PRECIPITATION AT
CHICAGO, ILL., FOR EACH DAY OF THE YEAR 1891.

DATE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.....	1.25	.02	.....	Trace	.....	Trace	.....	.03	.....	.....	.....	.....
2.....	.81	.03	.33	Trace	.40	.46	.23	.02	Trace	.....	.....	Trace
3.....	.01	.01	.15	.07	.09	.21	.12	.....	.20	.....	.....	.06
4.....	.....	.....	Trace	.01	Trace	.15	.....	.....	.....	.03	.....	.09
5.....	.....	.....	.....	.10	.....	.....	.....	.....	.....	.....	Trace	.....
6.....	.01	.....	.13	.06	.....	.11	.03	.....	.....	.05	Trace	.55
7.....	.....	.....	.01	.....	.....	.....	1.26	.....	.....	.16	.01	.01
8.....	.....	Trace	.22	.....	.....	.....	.....	.....	.....	Trace	.20	.....
9.....	.....	.04	Trace	1.16	.....	Trace	.....	.24	.....	.....	.84	.....
10.....	.01	.....	.....	.32	.17	.....	.....	.05	.....	.....	.82	.....
11.....	.....	.....	.09	.04	.03	.....	.....	.01	.....	.....	Trace	.....
12.....	.01	.....	.02	.....	.....	.....	.....	.....	.08	.....	.....	.....
13.....	Trace	.....	.....	Trace	Trace	.....	.02	.....	.....	Trace	.....	.....
14.....	.....	.....	.....	.47	.....	Trace	.72	.....	.....	.06	.07	.22
15.....	.....	.....	Trace	.03	.....	.12	.....	.....	Trace	.....	.58	.25
16.....	Trace	.06	.....	.....	.....	.....	.....	.....	.....	.....	.16	Trace
17.....	.....	.35	Trace	.22	.....	.20	.07	Trace	.....	.06	Trace	.....
18.....	.....	.01	Trace	.19	.....	.16	.02	.....	.....	.....	.....	.....
19.....	.....	.04	.06	.....	.....	.17	.....	.68	.....	.....	Trace	.....
20.....	.....	.95	.02	.13	Trace	.03	.....	.40	.....	.....	.23	.....
21.....	.14	.....	.25	.21	.55	.....	.....	.....	.....	.....	.29	.01
22 ..	Trace	.....	Trace	.11	.84	.....	Trace	.....	.....	.....	.02	.08
23 ..	.01	.....	.....	.....	.....	.....	.....	1.11	.....	.....	Trace	.....
24.....	Trace	.38	Trace	.....	.....	.....	.....	.97	.....	.....	Trace	.06
25.....	.....	.03	.....	.....	.01	.....	.....	.....	.....	.....	Trace	Trace
26.....	.....	.....	.13	.....	.....	.....	.....	Trace	.....	.....	Trace	Trace
27.....	.....	Trace	.13	.....	.....	.....	.....	1.01	.....	.....	.61	.....
28.....	.02	.03	.01	.....	.....	.79	.....	.....	.01	.....	Trace	.....
29.....	.07	.....	.....	.....	.....	.02	.....	Trace	.03	.....	.....	.....
30.....	Trace	.....	.54	.02	.....	.....	.....	Trace	.....	.....	.....	.....
31.....	.15	.....	.04	.....	.....	.....	.....	.....	.....	.....	.....	Trace
Total	1.99	1.95	2.13	3.14	2.09	2.42	2.47	4.52	0.82	0.36	3.83	1.32

Annual, 26.54

TRACE—Indicates precipitation too small to measure.

Dock lines have been established along the West branch of the East fork of the South branch. A survey of the North branch from near the North Western avenue bridge north to a point about half a mile north of Lawrence avenue has been commenced.

The traffic on the river has largely increased, as compared with the preceding year, although the depth of the river, on account of the low lake level, has been about a foot below the average of the year 1890.

The river traffic has been carried on with fair satisfaction to the vessel interests, and with much less detention to land travel at the bridge crossings than might reasonably be expected.

This avoidance of unusual detention, notwithstanding the great increase in vessel traffic and the very low stage of the water, is due to the appointment of a sufficient force of assistants to the Harbor Master to insure continuous service. So that when, by the aid of our bridge telephones and Vessel Despatcher, we received notice of blockades at any point our force was promptly on hand to clear it, and thus enable vessels to move up and down the river by night as well as by day. As every facility offered to night traffic on our river tends to relieve the pressure and detention at our bridge crossings during the day-time, when the streets are crowded, it pays to offer every facility to vessels desiring to make their trips after business hours.

There have been no blockades caused by wreckage during the year 1891.

The principal bridge detention, by grounded vessels, has been one at Division street, for twenty-four hours, by the Steamer Hesper, which grounded on account of the low water. A recurrence of similar delay at that point has been guarded against by removing piles and dredging the draws.

But one other serious detention occurred. This was at Archer avenue bridge, where, on October 5, the Steamer H. S. Pickands grounded in the draw owing to the low water, and, while four tugs were trying to pull her out, one of the tugs, the C. W. Parker, exploded her boiler and sank in such a position as to prevent the withdrawal of the Pickands until after the removal of the Parker, a period of about forty hours.

The river telephone system, inaugurated in 1887, has fully demonstrated its usefulness to the general public.

In 1891 we had an enormously large increase of tonnage to handle in the port of Chicago over that of 1890, it being 493,690 tons more than that of last year.

The following tables show what vessels of all descriptions arrived and cleared within the season of 1891, and within the district of the port of Chicago.

We have in port at present 998 vessels of all classes, divided as follows: Steam, 496; sail, 502, with an aggregate carrying capacity of 1,000,000 tons.

CHICAGO.

YEAR.	ARRIVALS.		CLEARANCES.		TOTAL.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
1883	11,203	3,555,586	11,271	3,743,574	22,474	7,299,160
1884	10,513	3,481,957	10,640	3,489,666	21,153	6,971,623
1885	9,846	3,347,647	9,910	3,364,169	19,756	6,711,816
1886	10,180	3,546,309	10,267	3,594,549	20,447	7,140,858
1887	10,828	3,868,465	10,920	3,989,615	21,748	7,858,000
1888	10,158	3,990,921	10,308	4,134,064	20,466	8,124,985
1889	9,552	4,417,415	9,462	4,403,634	19,014	8,821,049
1890	9,188	4,344,502	9,284	4,429,654	18,472	8,774,156
1891	8,956	4,569,526	9,144	4,698,320	18,100	9,267,846

SOUTH CHICAGO.

YEAR.	ARRIVALS.		CLEARANCES.		TOTAL.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
1890	860	707,670	801	634,225	1,661	1,341,895
1891	847	870,188	734	724,864	1,581	1,595,052

REPORT OF THE VESSEL DESPATCHER'S OFFICE,

FROM APRIL 15 TO NOVEMBER 30, 1891—BETWEEN THE HOURS OF 8:00 A. M. AND 9:00 P. M.

BRIDGES.

	RUSH.		STATE.		DEAR-BORN.		CLARK.		WELLS.		LAKE.		RAN-DOLPH.		MADISON.		ADAMS.		JACKSON.	
	257		259		259		259		256		259		258		258		257		259	
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
Number of days in service	464	54	460	40	465	50	460	1	454	10	480	41	455	18	482	19	440	35	436	10
Total time open	13,400		12,780		12,700		12,700		12,730		10,220		10,200		10,090		9,860		9,843	
Total number of vessels passed through	9,054		8,980		8,560		8,740		8,750		7,424		7,420		7,400		7,395		7,430	
Average number of vessels per day ...	59.58	+	56.18	+	55.12	+	54.92	+	56.04	+	44.81	+	44.63	+	44.80	+	43.90	+	43.60	+
Average number of swings per day ...	36.40	+	35.70	+	36.99	+	36.14	+	35.80	+	30.60	+	32.60	—	30.60	+	30.20	+	30.07	+
Average number of vessels per swing..	1.56	+	1.48	+	1.52	+	1.50	+	1.48	+	1.49	+	1.43	+	1.50	+	1.40	+	1.42	+
Average time consumed per vessel ...	1	36	1	46	1	54	1	35	1	50	2	15	2	18	2	10	2	6	2	6
Average time open per swing	2	32	2	37	2	54	2	20	2	40	3	16	3	18	3	9	2	54	2	55
Average time open per hour	3	46	3	46	4	18	3	20	4	4	3	48	3	50	3	37	3	25	3	24
Average time open per day	92	21	92	4	96	29	80	14	95	5	91	21	92	1	87	58	83	55	82	42

REPORT OF THE VESSEL DESPATCHER'S OFFICE—CONTINUED.

FROM APRIL 15 TO NOVEMBER 30, 1891—BETWEEN THE HOURS OF 8:00 A. M. AND 9:00 P. M.

BRIDGES.

	VAN BUREN.	HARRISON	POLK.	TWELFTH	EIGHT- EENTH.	KINZIE.	INDIANA.	ERIE.	CHICAGO AVENUE.
Number of days in service	257	259	259	258	259	258	258	258	258
	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.
Total time open	504 4	515 40	492 51	452 50	590 23	617 54	327 14	313 50	340 47
Total number of vessels passed through	9,884	9,604	9,563	9,460	9,040	13,376	4,832	4,686	4,986
Total number of swings	7,948	6,819	7,307	7,370	6,903	8,563	4,403	4,231	4,600
Average number of vessels per day	43.80 +	42.60 +	42.40 +	40.24 +	30.02 +	87.46 +	19.12 +	19.10 +	20.87 +
Average number of swings per day	28.73 +	26.52 +	28.42 +	28.08 +	26.16 +	83.6 +	14.85 +	14.65 +	15.70 +
Average number of vessels per swing	1.41 +	1.49 +	1.37 +	1.34 +	1.36 +	1.65 +	1.14 +	1.14 +	1.12 +
	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.
Average time consumed per vessel	2 27	2 55	2 45	2 28	3 00	2 27	3 00	3 00	3 4
Average time open per swing	3 46	4 11	3 45	3 17	4 13	5 00	3 57	3 57	3 53
Average time open per hour	4 21	4 28	4 19	3 52	4 21	5 28	2 26	2 20	2 32
Average time open per day	105 2	108 ..	104 30	98 15	105 35	135 39	69 34	55 28	57 22

REPORT OF THE VESSEL DESPATCHER'S OFFICE—CONTINUED.

FROM APRIL 15 TO NOVEMBER 30, 1891—BETWEEN THE HOURS OF 7:00 A. M. AND 7:00 A. M.

BRIDGES.

	VAN BUREN.	HARRISON	POLK.	TWELFTH.	EIGHT-EENTH.	KINZIE.	INDIANA.	ERIE.	CHICAGO AVENUE.
Number of days in service	257	259	258	259	258	258	258	258	258
	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.
Total time open	614 48	654 50	625 54	569 39	643 44	743 49	380 25	347 19	365 10
Total number of vessels passed through	12,465	12,139	12,484	12,019	11,402	14,940	5,610	5,566	5,784
Total number of swings	9,505	8,939	9,125	9,426	8,688	10,308	4,983	4,989	5,267
Average number of vessels per day	55.6 +	53.63 +	53.18 +	53.4 +	9.4 +	65.80 +	25.8 +	24.9 +	25.60 +
Average number of swings per day	38.1 +	35.4 +	36.4 +	37.10 +	34.5 +	45.60 +	18.3 +	18.4 +	19.6 +
Average number of vessels per swing	1.85 +	1.42 +	1.42 +	1.31 +	1.36 +	1.50 +	1.16 +	1.16 +	1.11 +
	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.
Average time consumed per vessel	2 41	2 41	2 27	2 4	2 26	2 31	1 20	1 5	1 13
Average time open per swing	4 39	4 39	4 55	4 22	5 20	4 63	5 39	5 32	5 58
Average time open per hour	6 6	6 6	5 73	4 96	5 30	6 8	3 4	2 65	2 97
Average time open per day	146 1	146 1	137 47	176 8	143 2	170 00	73 28	65 2	69 28

DEPARTMENT OF PUBLIC WORKS.

ARRIVALS OF VESSELS IN THE DISTRICT OF CHICAGO DURING THE YEAR 1891.

PORT OF	VESSELS IN THE COASTING TRADE.		FOREIGN VESSELS FROM FOREIGN PORTS		AMERICAN VESSELS FROM FOREIGN PORTS		TOTAL ARRIVALS.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Chicago	8,806	4,496,806	84	51,015	64	22,205	8,956	4,569,526
South Chicago	847	870,188	.....	.....	.....	.....	847	870,188
Michigan City	421	85,188	.....	.....	.....	.....	421	85,188
Total	10,076	5,451,682	84	51,015	64	22,205	10,224	5,534,862

CLEARANCES OF VESSELS IN THE DISTRICT OF CHICAGO DURING THE YEAR 1891.

PORT OF	VESSELS IN THE COASTING TRADE.		FOREIGN VESSELS TO FOREIGN PORTS.		AMERICAN VESSELS TO FOREIGN PORTS.		TOTAL CLEARANCES.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Chicago	8,859	4,554,941	89	53,819	196	90,060	9,144	4,698,820
South Chicago	784	724,864	.....	.....	.....	.....	784	724,864
Michigan City	416	88,516	.....	.....	.....	.....	416	88,516
Total	10,109	5,368,321	89	53,819	196	90,060	10,294	5,506,700

BRIDGES AND VIADUCT CONSTRUCTION.

W. M. Hughes, City Bridge Engineer, is in charge of this branch of work, and the following structures have been constructed during the year 1891:

BRIDGES AND VIADUCTS.

The West Taylor street viaduct, the contract for which was let to the American Bridge Works in 1890 for the sum of \$62,250.00 for the super-structure, and to James Kincade the sub-structure for the sum of \$20,777.98, has been completed, but is not yet open for traffic, owing to the fact that the Northern Pacific Railroad has not as yet carried out that portion of their ordinance of July 20, 1891, pages 554 et seq., which provides for said Northern Pacific Railroad building a viaduct and approaches on the east side of the river.

OGDEN BOULEVARD VIADUCT.

This structure is far advanced in construction, the masonry work and approaches being practically completed.

The contractors for the super-structure, the American Bridge Works, are well advanced with their portion of the work.

This structure is 120 feet wide over all, with a central boulevard roadway of 40 feet clear width, two sidewalks each 8 feet wide in the clear, and two side traffic ways each 26 feet clear width.

The division of cost of this structure is given in the accompanying table of viaducts.

MADISON STREET BRIDGE.

This bridge, the contract for which was let to Riter & Conley, of Pittsburgh, was completed and opened for traffic October 16, 1891.

The city has a number of bridges which accommodate four lines of teams abreast. Such structures, previous to Madison street, were built with three trusses, while the latter has only two, the width of the bridge being reduced four feet in this manner.

Riter & Conley also furnished and erected a 45-foot girder span immediately west of the bridge and connected therewith.

The Fitz-Simons & Connell Company put in the sub-structure, and the Excelsior Iron Works furnished and erected the machinery for swinging the bridge.

MADISON STREET VIADUCT.

A three-truss skew viaduct was built over the tracks on West Water street and opened for traffic simultaneously with the bridge. The Penn Bridge Company, of Beaver Falls, Pa., did the work.

CALIFORNIA AVENUE CANAL BRIDGE.

The abutments of this bridge were built by Rogan Bros., of Joliet, Ill. No approaches have as yet been built, chiefly for the reason that the street is not open north of the canal. The Wrought Iron Bridge Company, of Canton, Ohio, has the contract for the super-structure and are now erecting the same, and will have it completed not later than April 1.

A tabulated statement, giving facts as regards the Chicago viaduct system, with super-structures, sub-structures, grades and costs, is appended.

TABLE OF VIADUCTS, GIVING LENGTHS.

	LOCATION.	CHARACTER SUPER-STRUCTURE.	FEET IN LENGTH.	FEET IN WIDTH.	CHARACTER SUPER-STRUCTURE.	CONTRACTOR, SUB.
1	Madison st. and W. Water st.	Wrought and Cast Iron.	83	59	Masonry and Filling	
2	Adams st.—Canal st. to River Bridge	Wrought Iron	306	38½	"	
3	Halsted and 16th st. over C. B. & Q. R. R.	"	176½	60	"	
4	Van Buren st., over P., Ft. W. & C. R. R.	"	65	62	"	
5	Randolph st., over W. Water st.	Wrought and Cast Iron.	81	60	"	
6	Lake st., over W. Water st.	Wrought Iron	78½	60	"	
7	Wells st., over N. Water st.	"	83	80	"	
8	Clark st., over N. Water st.	"	88	80	"	
9	State st.—River to N. Water st.	"	304	59	"	
10	Erie st., over C. & N.-W. R'y.	Wood	497	34	"	
11	Indiana st., over C. & N.-W. R'y	"	614	31½	"	\$54,687 00
12	Canal and 16th st., over C. B. & Q. R. R.	Iron	300	64	"	DeGolyer & Hubbard..
13	Halsted and Kinzie sts., Car- roll ave. to Kinzie st.	"	473	62	"	W. F. Hildreth
14	12th and Beech sts., over P., Ft. W. & C. R. R.	"	58	58	"	\$23,792 00
15	Blue Island ave. and Throop st.	"	123 101	65½ 58½	"	Cox Brothers
16	Milwaukee avenue and Des- plaines st.	"	690 473	59 65	"	Jas. Kincade
17	West 18th st., over P., Ft. W. & C. R. R.	"	184	36	"	\$70,861 48
18	Sangamon st.	"	458	38	"	Jas. Clowry
19	West Harrison st.	"	498½	38	"	\$15,215 16
3a	New South Halsted st.	"	176½	60	"	M. C. & J. Duffy
20	Polk st., west, over C. B. & Q. R. R.	"	346	33	"	J. J. Kearns
21	Center ave. Viaduct, over 16th st.	"	473	58	"	City
14a	New 12th st., at Beech st.	"	140	56	"	E. F. Gobel
22	Halsted and Chicago ave.	"	Halsted 666 Chi. av. 238	49 60	Repaired	M. P. Garrity
10a	New Erie st.	"	463.37	38	"	M. P. Garrity
2a	New Adams st.	"	208.6	58	Old, Repaired	\$61,380 00
23	West 12th st., west of River	"	363.6	58	"	John Duffy & Son
24	12th st. (Sec. 1), Clark st. and west	"	495.02	58	"	City
6a	New Lake st. (Chicago & Evanston R. R.)	"	106.2	60	Old	City
25	Extensions to Blue Island, Halsted, Center ave. and Canal (C. & G. W. R'y)...	Steel	Same widths viaducts.	as old	Old, Repaired	Fitz-Simons, Connell & Co
26	Jackson st. and Canal	"	359.3	58	"	C. & G. W. R'y
27	18th st., east of River	"	463.37	58 & 38	Masonry and Filling	
11a	New Indiana st.	Iron	613.07	38	"	Jos. Downey
28	Western ave. Viaduct	Steel	140	58	Old, Repaired	M. C. & J. Duffy
29	Ashland ave. Viaduct	"	376.42	58	"	City
30	Dearborn ave. Viaduct	"	625	40	"	W. F. Hair
31	Polk st., east C. & G. W. R'y.	"	407.5	40	"	M. C. & J. Duffy
32	5th ave. Approach	"	658.81	60	"	C. & G. W. R'y
33	East 12th st., West or Second Section	Iron	374	58	"	Jos. Downey
34	12th st., east of Clark	Steel	979.96	58	Masonry Piers	
35	Thirty-fifth st.	"	405.53	58	Masonry and Filling	Sackley & Peterson
36	Washington st.	"	255	32	"	Robt. Wilson
1a	Madison st.	"	98	60	"	J. J. Duffy
37	West Taylor st.	"	900	58	"	Fitz-Simons, Connell & Co
38	Ogden Boulevard	"	440.4	120	"	Jas. Kincade
39	61st st. Viaduct*				"	\$84,500 00

* This viaduct is in the old town of Lake, and the city of Chicago has no plans or record concerning it.

REMARKS.—The total length of existing super-structure is 14,673.14 feet, or 2.73 miles. The total length of approaches is 22,910.53 feet, or 4.40 miles. The average cost per viaduct has been \$97,486.10.

WIDTHS, APPROACHES, GRADES, ETC.

CONTRACTOR, SUPER.	DATE.	CITY PAID.	RAILROADS PAID.	TOTALS.	APPROACHES.		
					LOCATION.	LENGTH IN FEET	GRADIENT.
Keystone Bridge Co.....	1866			\$12,875 00	West.....	221.	1 Foot in 81.7
"	1869	\$25,888 87	\$19,000 00	44,888 87	West.....	200	1 " 18.4
Detroit Bridge Co.....	1869		24,725 00	24,725 00	{ North.....	410	1 " 31.0
					{ South.....	265	1 " 21.0
American Bridge Co.....	1880	{ 7,715 56		7,715 56	{ East.....	184	1 " 26.7
Keystone Bridge Co.....	1870		12,206 00	12,206 00	{ West.....	176	1 " 23.0
"	1871				{ West.....	268	1 " 70.0
"	1872			13,505 00	{ West.....	176	1 " 21.5
"	1872	12,570 65		12,570 65	{ North.....	230	1 " 27.5
"	1872	24,277 43	14,730 00	39,007 43	{ North.....	278.5	1 " 37.5
"	1872			28,840 00	{ North.....	270	1 " 36.0
Fox & Howard	1871	23,056 25		23,056 25	{ West.....	350	1 " 26.0
F. E. Canda.....	1869			78,697 00	{ West.....	228	1 " 24.0
Fox & Howard	1873	30,000 00	96,401 29	126,401 29	{ North.....	550	1 " 42.5
"					{ South.....	530	1 " 39.5
Joulerin, James & Co.....	1874	65,477 46	65,357 81	130,835 27	{ North.....	524	1 " 38.5
"					{ South.....	472	1 " 39.0
American Bridge Co.....	1873	7,549 62	25,668 25	33,217 87	{ East.....	378.5	1 " 30.0
"					{ West.....	408	1 " 32.0
"					{ South.....	570	1 " 39.0
Keystone Bridge Co.....	1876	74,201 84	22,126 80	96,328 14	{ North.....	507	1 " 37.0
"					{ North.....	423	1 " 31.0
"					{ South.....	483.5	1 " 30.0
American Bridge Co. & Leighton. }	1876	164,165 00	181,878 00	296,043 00	{ N. W.....		1 " 50.0
"	1880				{ S. E.....		1 " 40.0
"					{ Both ways ..		1 " 40.0
Keystone Bridge Co.....	1879	19,842 82	14,000 00	33,842 82	{ West.....	130	1 " 40.5
"					{ West.....	330	1 " 28.0
Dunningham & Keepers	1881	50,129 24	48,847 79	98,977 03	{ North.....	495	1 " 30.0
"					{ South.....	440	1 " 30.0
Rust & Coolidge.....	1881	19,851 75	76,567 55	96,419 30	{ East.....	300	1 " 40.0
Leighton Bridge Works	1881	17,685 73		17,685 73	{ West.....	360	1 " 40.0
Central Bridge Co.....	1882	Nothing...	115,009 49	115,009 49	Same as in 1869.		
Edw. Hemberle.....	1884	105,063 74	47,666 38	152,730 12	{ West.....	498 28	1 " 38.08
"					{ East.....	334 52	1 " 41.41
Rust & Coolidge.....	1884	7,554 20	24,306 84	31,861 04	{ South.....	722	1 " 40.0
"					{ North.....	722	1 " 40.0
Pittsburg Bridge Co.....	1884	149,687 50	135,696 41	285,383 91	{ West, same as in 1873.		
"					{ East, parallel to that of 1873.		
Edw. Hemberle.....	1885	45,000 00		45,000 00	{ South.....	758	1 Foot in 40.0
Keystone Bridge Co.....	1885	33,462 40		33,462 40	{ West.....	768	1 " 30.0
"					{ East.....	550	
A. Gottlieb & Co.....	1887	Nothing...	111,214 18	111,214 18	Same as in 1869.		
King Bridge Co. and M. Lassig...	1887	72,778 60	56,343 08	129,121 68	{ West.....	227	1 " 40.0
"					{ North.....	656	1 " 40.0
Massillon Bridge Co.....	1887		39,007 84	39,007 84	{ South.....	656	1 " 40.0
"					{ West.....	230.4	1 " 23.0
A. Gottlieb & Co.....	1886		85,987 57	85,987 57	{ East.....	75.53	1 " 37.0
"					Same as before extensions were made, but shorter.		
A. Gottlieb & Co.....	1887	212,200 00	74,600 00	296,800 00	{ West.....	524.69	1 Foot in 35.0
"					{ Canal { N.....	355	1 " 50.8
"					{ S.....	306.66	1 " 30.15
Keystone Bridge Co.....	1888	Nothing...	114,446 00	114,446 00	{ East.....	320	1 " 26.4
Pittsburg Bridge Co.....	1888	54,491 39		54,491 39	{ West.....	228	1 " 24.0
Chicago Forge & Bolt Co.....	1889		80,712 88	80,712 88	{ North.....	603.1	1 " 27.65
"					{ South.....	563	1 " 28.0
A. Gottlieb & Co.....	1889	28,217 99	65,399 36	94,317 35	{ North.....	542	1 " 26.26
"					{ South.....	325	1 " 26.5
M. Lassig	1889	22,858 74	40,000 00	62,858 74	{ North.....	178	1 " 20.0
"					{ South.....	180.2	1 " 20.0
Chicago Forge & Bolt Co.....	1888	Nothing...	All.....	Unknown...	{ East.....		1 " 18.7
"	1888	20,000 00	60,000 00	80,000 00	{ North.....	200	1 " 40.0
M. Lassig	1889	For release of all damages.	{ Balance	Unknown...	{ Extension of old bridge, on same level.		
Riter & Conley.....	1889	Nothing...	209,736 00	209,736 00	{ East.....	187.7	1 Foot in 22.28
A. Gottlieb & Co.....	1889	"	159,781 06	159,781 06	{ West.....	637	1 " 27.81
"					{ East.....	773	1 " 33.8
King Bridge Co.....	1890	20,237 63	6,014 37	26,252 00	{ West.....	143	1 " 21.0
"					{ East.....	108	1 " 21.0
Penn Bridge Co.....	1891	11,200 00			Same as in 1866.		
American Bridge Works.....	1891	Nothing...	83,027 98	83,027 98	{ West.....	305	1 " 23.0
"					{ S. W.....	450	1 " 25.0
American Bridge Works.....	1892	93,977 86	108,750 14	202,728 00	{ N. E.....	450	1 " 25.0
"							
		\$1,419,086 77	\$2,169,208 07	\$3,703,711 84			

Of the total divisible amounts of cost of construction, the railroads have paid 60½ per cent., and the city of Chicago 39½ per cent. If the city has paid the difference between the divisible amounts and the sum total, then the city has paid 41½ per cent., and the railroads 58½ per cent. of the total cost of construction.

BRIDGE AND VIADUCT REPAIRS.

J. E. Roemheld, Engineer in charge of Bridge Repairs, has this branch of work under his supervision, and the bridges and viaducts of the city have undergone certain repairs as the limited appropriation allowed would admit.

The total amount expended during the year was \$123,109.18.

MAIN DRAINAGE WORKS.**CANAL PUMP WORKS.**

The Canal Pump Works, situated at the intersection of the South branch of the Chicago river and the Illinois and Michigan Canal, has been in operation almost the entire year.

The average amount of water pumped per minute during the year was 32,000 cubic feet.

The cost of operating and maintaining, including repairs, was \$70,000.00. Annexed is a table showing the monthly operations of the plant.

W. J. Culliton is the Engineer in charge of the works.

FULLERTON AVENUE PUMP WORKS.

The Fullerton avenue Pump Works, situated on the North branch of the Chicago river at Fullerton avenue, receives its supply through a 12-foot tunnel from the lake and is pumped into the North branch of the Chicago river, thus purifying to a certain extent its water.

The average amount of water pumped per day during the year was fifteen million cubic feet.

A. D. Howell is the Engineer in charge of the works.

LOW LEVEL SEWERAGE DISTRICT.

The Woodlawn Pumping Works (Sixty-third street and Illinois Central Railroad) lift the drainage and sewerage of the Woodlawn district into the city sewer system. Four hundred and twenty million gallons has been pumped during the year, which makes an average of about one and one-half million gallons per day.

Mr. T. R. Annable is the Engineer in charge.

WATER PIPE EXTENSION AND METER SERVICE.

Mr. John A. Moody is Superintendent of the first-named branch and P. S. Storm is Superintendent of Meters.

The 36-inch pipe ordered for Sulzer avenue, in 1890, has been removed and laid in connection with the Fourteenth-street Pumping Works, passing under the river at Douglas avenue (Thirty-fifth street) and extending to Ashland avenue.

The 16-inch pipe on Sixty-eighth street and Sixty-seventh street, from the pumping works to Woodlawn avenue, and the 14-inch pipe from Woodlawn avenue to State street, abandoned in 1890, has been taken up, and that part of the 14-inch fit for use was relaid on Prairie avenue from Forty-third street to Fifty-first street.

Property owners have advanced the sum of \$162,406.31 to cover the cost of laying 154,107 feet of pipe, varying in diameter from six to twelve inches. This money is to be refunded when the required revenue is derived from the pipe.

The city shop has been able to supply the hydrants and stop-valves for the year. We find those of our own make more satisfactory and durable than any we have ever bought.

Water mains have been lowered below the frost line in the following streets :

Addison avenue, between Clark street and Sheffield avenue.

Addison avenue, between Southport avenue and Herndon street.

Bittersweet place, east of Halsted street.

Carpenter street, north of alley north of Fifty-fifth street.

Dickey street, between Seventieth and Seventy-first streets.

Fifty-fifth street, between Jefferson avenue and Lake avenue.

Fifty-eighth street, between Michigan avenue and Wabash avenue.

Forty-third street, between Cottage Grove avenue and Drexel boulevard.

Forty-sixth street, between St. Lawrence avenue and Champlain avenue.

Stewart avenue, between Seventieth and Seventy-first streets.

Stewart avenue, between Seventy-eighth and Seventy-ninth streets.

St. Lawrence avenue, between Forty-sixth and Forty-seventh streets.

Wabash avenue, between Fifty-seventh and Fifty-ninth streets.

Wabash avenue, between Sixtieth and Sixty-third streets.

Michigan avenue, between Fifty-first and Fifty-eighth streets.

The above mentioned pipe was laid, by contract, before annexation.

The following tabulated statement shows in detail the work done on water pipe extension during the year :

NORTH DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Blackhawk	Hooker	Cherry	390	8
Burton place.....	160 ft. W. of State.....	Westward	140	6
Chestnut place.....	Delaware place.....	Walton place.....	305	6
Clyde	Maude avenue.....	Northward	258	6
Garfield avenue	Lewis	Eastward.....	117	6
Hickory	Division.....	Northward.....	485	8
Hooker.....	Rees	Blackhawk.....	983	8
Huron	St. Clair	Eastward.....	643	6
Indiana	732 ft. E. of St. Clair	Eastward.....	600	6
Leddy... ..	12 ft. S. of S. line Fullerton avenue.	12 ft. N. of N. line Fullerton avenue.	124	6
Oak	Larrabee.....	Westward	150	8
Ohio	Market	Westward	920	6
Poe	22 ft. S. E. of N. line Clyde.	Connect.....	40	4
Rees.....	Hickory	Hooker.....	350	8
Total			5,435	
Add branch pipe for hydrants.....			108	4
Add branch pipe for hydrants.....			168	6
Total feet laid in North Division			5,711	

SOUTH DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Buena Vista place . .	25 ft. E. of Emerald avenue	Eastward	224	4
Calhoun place	Fifth avenue	La Salle	380	8
Calumet avenue	Thirty-seventh	Southward	112	6
Calumet avenue	Thirty-eighth	Southward	550	6
Dearborn	Sixteenth	Fourteenth	1,460	36
Fisk	800 ft. S. of Springer	Southward	290	6
Forest avenue	Thirty-ninth	Southward	20	6
Fourteenth	Indiana avenue	Westward	191	8
Fourteenth	123 ft. E. of Michigan avenue	Eastward	95	8
Fourteenth	28 ft. E. of Michigan avenue	Eastward	165	36
Fourteenth	26 ft. E. of Dearborn	Eastward	124	36
Fourteenth	84 ft. E. of Dearborn	Eastward	80	48
Gage	Thirty-eighth	156 ft. south	156	6
Indiana avenue	93 ft. S. of Fourteenth	Northward	214	36
James avenue	Lincoln	Eastward	325	6
Joseph	Kedzie avenue	Spaulding avenue	680	6
La Salle	Twenty-sixth	Twenty-seventh	466	36
La Salle	Twenty-seventh	Southward	320	36
La Salle	Twenty-ninth	Thirty-third	2,752	36
Lincoln	Thirty-fifth	Thirty-sixth	625	8
Lincoln	Thirty-first	Southward	316	6
Lowe avenue	Thirty-fifth	Northward	175	8
Lowe avenue	Thirty-third	Thirty-fifth	1,817	36
Lowe avenue	Crossing	Thirty-ninth	92	16
Musprat	275 ft. S. of Springer	Southward	310	6
Portland	Crossing	Thirty-second	36	6
Smith	Pearson	175 ft. E. of Sacramento avenue	665	6
Smith	Crossing	Sacramento avenue	25	8
Third avenue	Fourteenth	Northward	16	24
Thirtieth	Halsted	Emerald avenue	265	6
Thirtieth	Wallace	Canal	932	6
Thirty-eighth	Halsted	Emerald avenue	265	6
Thirty-eighth	Emerald avenue	Union avenue	260	6
Thirty-eighth	Union avenue	Wallace	592	6
Thirty-fifth court . . .	80 ft. W. of Gage	Westward	120	6
Thirty-first	Vermont avenue	Eastward	685	6
Thirty-fourth court . .	175 ft. E. of Robey	Eastward	175	8
Thirty-fifth	Charlton	300 ft. E. of Iron	1,745	36
Thirty-fifth	Lowe avenue	212 ft. W. of Ullman	8,876	36
Thirty-ninth	Lowe avenue	Emerald avenue	665	16
Thirty-ninth	Forrest avenue	Prairie avenue	224	16
Thirty-ninth	Crossing	Forrest avenue	27	12
Thirty-seventh court . .	Laurel	Eastward	317	6
Thirty-seventh	Gage	Eastward	153	6
Thirty-third	LaSalle	Lowe avenue	3,130	36
Twenty-eighth	Emerald avenue	Dashiel	266	6
Twenty-eighth	Halsted	Emerald avenue	266	6
Twenty-eighth	Dashiel	Wallace	600	6
Vermont	Thirty-fifth	Thirty-sixth	625	6
Wall	275 ft. S. of Springer	Southward	328	6
Total			28,017	
Add branch pipe for hydrants			144	4
Add branch pipe for hydrants			288	6
Total feet laid in South Division			28,449	

WEST DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Alley S. of George.	Carpenter.	Eastward.	267	4
Alley et. Madison & Monroe	Loomis	Eastward.	237	6
Adams	Kedzie avenue.	Westward.	914	6
Adams	Crossing	Central Park avenue.	80	6
Adams	Homan avenue	Central Park avenue.	1,273	6
Albany avenue.	Twenty-third.	Northward	100	6
Albany avenue.	Ogden avenue.	Douglas Park boulevard.	1,311	6
Albany avenue.	Crossing	Twenty-sixth.	60	8
Albany avenue.	Twenty-second	Northward	460	6
Alice court	Leavitt	Milwaukee avenue	907	6
Augusta	Hoynes avenue	Leavitt	666	8
Augusta	Crossing	Richmond.	84	8
Augusta	Crossing	Kedzie avenue.	100	8
Augusta	Hamlin avenue	90 ft. W. of Avers avenue.	450	8
Avers avenue.	Augusta	210 ft. S. of Division.	1,075	6
Bremer.	Oakley avenue	12 ft. W. of Leavitt.	630	6
Burnett	Leavitt	Hoynes avenue.	666	6
California avenue.	Crossing	Chicago avenue	68	6
Campbell avenue.	Ogden avenue	Northward	300	6
Campbell avenue.	Twelfth.	Southward	535	6
Carroll avenue.	Sacramento avenue.	Westward.	170	6
Central Park avenue	Twenty-fifth.	Twenty-sixth.	666	6
Central Park avenue	Crossing	North avenue.	96	8
Central Park avenue	Colorado avenue.	Harrison.	776	8
Central Park avenue	Madison	Colorado avenue.	1,860	8
Chicago avenue	California avenue.	Westward.	179	6
Clarinda	Wood	Samuel	260	6
Clarinda	12 ft. W. of Paulina	Samuel	256	6
Clarinda	Rumsey	Paulina	254	6
Clarinda	24 ft. W. of Ashland avenue	Rumsey.	224	6
Clifton Park avenue.	Crossing	Twenty-sixth.	66	6
Colorado avenue	Central Park avenue	Westward.	1,290	8
Colorado avenue	Crossing	Forty-eighth.	42	6
Colorado avenue	Garfield boulevard.	70 ft. W. of Hamlin avenue.	188	8
Congress	Central Park avenue	Eastward.	55	6
Congress	Crossing	Francisco	92	6
Congress	Forty-fourth.	Forty-sixth.	1,104	6
Congress	Fortieth	Westward	1,941	6
Cornelia.	Western avenue	Seymour	625	6
Cortez	Crossing	Richmond.	68	6
Delamater place.	Crossing	North avenue.	48	6
Della	Forty-seventh	Forty-eighth.	592	6
Della	Crossing	Forty-eighth.	27	6
Douglas Park blvd.	Crossing N. S.	Sawyer avenue.	76	6
Douglas Park blvd.	Crossing S. S.	Sawyer avenue.	76	6
Douglas Park blvd.	Crossing	Twelfth.	110	6
Drake	180 ft. S. of Ohio	Southward	332	6
Eighteenth	256 ft. E. of Trumbull avenue	Eastward.	338	8
Emerald avenue.	Crossing	Thirty-ninth.	39	16
Evergreen avenue	Crossing	Elston avenue	36	6
Fairfield avenue.	Iowa	Augusta.	621	6
Fifteenth	Crossing	Kedzie avenue.	76	6
Fourteenth	Crossing	113 ft. E. of Michigan avenue	40	8
Fourteenth	214 ft. W. of Wood	Lincoln.	424	6
Fourteenth	Crossing	Sawyer avenue	76	6

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Forty-eighth (West).	Harrison	Colorado avenue	1,688	8
Forty-fifth (West)...	Congress	Harrison	830	6
Forty-fifth (West)...	Crossing	Madison	125	8
Forty-first (West)...	Crossing	Madison	122	6
Forty-first (West)...	Jackson	Congress	1,004	6
Forty-fourth (West).	Owasco	Congress	662	8
Forty-seventh (West)	Crossing	Madison	125	8
Forty-sixth (West)...	Crossing	Madison	125	6
Forty-third (West)...	Madison	Owasco	1,600	6
Forty-third (West)...	Crossing	Madison	81	6
Forty-third (West)...	68 ft. N. of Park avenue.	Randolph	416	6
Fourteenth	Crossing	Sawyer	76	6
Francisco	Crossing	Twenty-sixth	76	6
Fulton	St. Louis avenue	Westward	164	8
Glenview avenue	Homan avenue	Eastward	270	8
Grand avenue	40 ft. W. of Avers avenue.	Fortieth	1,100	12
Grand avenue	Hamlin avenue	Lawndale avenue	585	8
Grand avenue	Washtenaw avenue	Christiana	5,050	8
Grand avenue	Homan avenue	Monticello	1,875	8
Greeley place	11 ft. N. of Alley S. of George	Southward	108	4
Hamlin avenue	Ogden avenue	Northward	1,100	6
Hamlin avenue	Twenty-fourth	Southward	320	6
Harrison	74 ft. E. of Forty-fourth place	Forty-eighth	2,484	8
Harrison	Crossing	Central Park avenue.	90	8
Harvard	10 ft. W. of Sacramento avenue.	Westward	281	8
Harvard	Fairfield avenue	California avenue	270	8
Harvard	Crossing	Sacramento avenue	76	8
Harvard	Campbell avenue	Westward	1,160	8
Henry	Kedzie avenue	Eastward	46	6
Hinman	Albany avenue	Eastward	666	6
Homan avenue	12 ft. S. of Glenview	Southward	254	8
Homan avenue	Grand avenue	Glenview	1,110	8
Homan avenue	Crossing	North avenue	96	8
Homan avenue	Walnut	Fullerton avenue	860	8
Homan avenue	Crossing	Twenty-sixth	46	8
Homan avenue	Eighteenth	300 ft. N. of Sixteenth	950	8
Hoyne avenue	Fullerton avenue	Southward	68	6
Hoyne avenue	Eighteenth	Van Horn	266	8
Hoyne avenue	Van Horn	Nineteenth	270	8
Hoyne avenue	Nineteenth	Twentieth	266	8
Hoyne avenue	Twenty-first	Hinman	266	6
Hoyne avenue	Hinman	Twenty-second	270	6
Hoyne avenue	Twentieth	Twenty-first	270	8
Huron	Crossing	Kedzie avenue	80	6
Huron	Troy	Eastward	200	6
Ida	Forty-eighth	312 ft. E. of Forty-seventh.	1,005	6
Iowa	Leavitt	Hoyne avenue	666	6
Iowa	Western avenue	Seymour	625	6
Jackson	Forty-third (West)	Fortieth (West)	1,974	8
Jane	12 ft. W. of Rumsey	8 ft. E. of Paulina	255	6
Jane	Samuel	17 ft. E. of Wood	250	6
Jane	Leavitt	Eastward	41	6
Jane	Paulina	Samuel	260	6
Kedzie avenue	Ohio	70 ft. N. of Augusta	2,750	12
Kedzie avenue	Crossing	North avenue	96	12

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Kedzie avenue	Thirty-eighth	Joseph	885	8
Kedzie avenue	Twenty-second	Northward	285	8
Kedzie avenue	Ogden avenue	Southward	225	8
Kedzie avenue	Twelfth	110 ft. S. of Ogden avenue	8,163	12
Kedzie avenue	240 ft. N. of Nineteenth	Northward	346	8
Kedzie avenue	90 ft. N. of Twenty-fourth	Northward	182	12
Kuehl place	Elston avenue	Lister	315	6
Laughton	California avenue	Eastward	220	6
Lawndale avenue	Crossing	North avenue	124	6
Lawndale avenue	Crossing	Colorado avenue	83	6
Leavitt	Division	Rice	2,250	6
Leavitt	Wabansia avenue	Southward	175	8
Le Moyne	Maplewood avenue	Eastward	106	6
Leipzig	Hamburg	Ems	450	4
Lexington avenue	Crossing	Sacramento avenue	46	6
Lexington avenue	230 ft. W. of Francisco avenue	Westward	81	6
Linwood avenue	Crossing	Richmond	96	6
Lunn court	Crossing	Campbell avenue	50	6
Madison	Forty-third (West)	Westward	1,618	8
Madison	Fortieth (West)	Westward	1,900	8
Madison	Forty-third (West)	Forty-eighth	3,610	8
Mailler	Forty-eighth (West)	312 E. of Forty-seventh (West)	1,005	6
Mailler	Crossing	Forty-eighth (West)	27	6
Maplewood avenue	Crossing	Fifteenth	24	6
Marlin	Crossing	California avenue	38	6
Millard avenue	Crossing	Colorado avenue	33	6
Millard avenue	Twelfth	Southward	360	6
Millard avenue	Twenty-sixth	Twenty-seventh	682	6
Monroe	Crossing	Spaulding avenue	86	6
Monroe	Homan avenue	Central Park avenue	1,288	6
Monroe	Central Park avenue	Eastward	30	6
Monticello avenue	Division	Emery	615	8
Monticello avenue	Crossing	North avenue	76	6
Nineteenth	Kedzie avenue	Eastward	1,405	6
Oakley avenue	Crossing	Fullerton avenue	96	6
Oakley avenue	152 ft. N. of Ems	Northward	100	6
Oakley avenue	26 ft. N. of Chicago avenue	Southward	700	6
Oakley avenue	Ohio	Northward	294	6
Ogden avenue	Crossing	Sawyer avenue	86	6
Ogden avenue	Crossing	Kedzie avenue	76	6
Ogden avenue	Millard avenue	Bonney avenue	720	8
Ogden avenue	Kedzie avenue	Sawyer avenue	332	6
Ogden avenue	Hamlin avenue	Fortieth	1,410	8
Ohio	Crossing	St. Louis avenue	48	12
Ohio	Crossing	Kedzie avenue	42	12
Owasco	Fortieth (West)	Forty-second (West)	1,272	6
Owasco	Forty-third	12 ft. W. of Forty-fifth	1,870	6
Polk	Crossing	Sacramento avenue	76	6
Ridgeway avenue	Ohio	Huron	667	6
Rockwell	Crossing	Chicago avenue	130	12
Rosebud	Crossing	Wabansia avenue	53	6
Rosebud	Wabansia avenue	Bloomington	650	6
Sacramento avenue	Crossing	Twenty-sixth	46	6
Sacramento avenue	Twenty-seventh	Southward	916	6
Sacramento avenue	Lexington avenue	Southward	1,316	8

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Sacramento avenue.	Harrison	25 ft. S. of Flournoy.....	280	8
Sawyer avenue.....	Twelfth	Ogden avenue.....	3,150	6
Sawyer avenue.....	Crossing	Twenty-sixth.....	66	6
Seymour	Crossing	Chicago avenue.....	100	6
Sixteenth.....	Crossing	Sawyer avenue.....	75	8
Sixteenth.....	Crossing	Kedzie avenue.....	76	8
Spaulding avenue	Crossing	Twenty-sixth.....	66	6
Spaulding avenue	C. B. & Q. tracks	Northward	50	6
Spaulding avenue	Crossing	Adams	86	6
Stanley terrace.....	40 ft. N. of Jackson	2 ft. S. of N. line of Jackson.....	42	6
St. Hedwig.....	250 ft. N. of Kosciusko	Northward	118	6
St. Hedwig.....	363 ft. N. of Kosciusko	Northward	104	6
St. Louis avenue.....	Crossing	Twenty-sixth	66	8
St. Louis avenue.....	Crossing	Adams	84	8
St. Louis avenue.....	Crossing	North avenue.....	96	6
St. Louis avenue.....	Crossing	Monroe.....	86	6
St. Paul avenue	23 ft. E. of Rosebud.....	12 ft. E. of Western avenue.....	860	6
String	Crossing	Twenty-first.....	100	4
Superior.....	Washtenaw avenue.....	Westward.....	335	6
Superior.....	50 ft. E. of Western avenue	Eastward.....	615	6
Superior.....	Forty-sixth.....	Forty-seventh.....	576	6
Taylor	Crossing	Fairfield avenue.....	75	6
Thirteenth.....	Crossing	Sawyer avenue.....	76	6
Thirty-fifth.....	Crossing	Leavitt	30	6
Thirty-ninth.....	Crossing	Twelfth.....	110	6
Thomas	20 ft. E. of Richmond.....	Westward.....	108	6
Thomas	Leavitt	Hoyne avenue.....	666	6
Thompson avenue	Crossing	Rockwell.....	167	6
Thompson avenue	30 ft. E. of Washtenaw avenue.....	Westward.....	127	6
Troy avenue	Twelfth.....	Southward	1,967	6
Twelfth.....	Garfield boulevard	Westward.....	1,510	12
Twenty-eighth.....	Crossing	Millard avenue.....	47	8
Twenty-fifth.....	Crossing	Bonney avenue.....	44	6
Twenty-fifth.....	Crossing	Central Park avenue.....	70	6
Twenty-first.....	12 ft. W. of Western avenue	Westward	500	6
Twenty-fourth.....	Crossing	Bonney avenue.....	28	6
Twenty-fourth.....	Crossing	Central Park avenue.....	70	6
Twenty-ninth.....	Lawndale avenue.....	Westward.....	27	6
Twenty-second.....	Hamlin avenue.....	Westward.....	665	6
Twenty-second.....	Springfield avenue.....	Westward.....	110	6
Twenty-seventh.....	Crossing	Millard avenue.....	28	6
Twenty-seventh.....	Crossing	Lawndale avenue.....	80	6
Twenty-seventh.....	Whipple	Sacramento avenue.....	340	6
Twenty-sixth.....	Crossing	Lawndale avenue.....	48	6
Twenty-sixth.....	Millard avenue	Hamlin avenue.....	950	6
Twenty-sixth.....	Bonney avenue	Hamlin avenue.....	300	6
Twenty-sixth.....	Sacramento avenue.....	Whipple	335	6
Twenty-sixth.....	Whipple	Central Park avenue.....	3,626	6
Twenty-sixth.....	Crossing	Millard avenue.....	84	6
Van Buren.....	Fortieth (West).....	12 ft. W. of Forty-second (West).....	1,346	6
Wabansia avenue.....	Crossing	Maplewood avenue.....	96	8
Wabansia avenue.....	Crossing	Rockwell.....	60	8
Wabansia avenue.....	12 ft. E. of Western avenue	Milwaukee avenue	1,637	6
Wabansia avenue.....	Crossing	Seymour.....	120	8
Wabansia avenue.....	40 ft. W. of Sheridan.....	Hancock.....	1,257	8

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Wabansia avenue...	Crossing	Davey avenue	90	8
Walnut... ..	Homan avenue.....	Westward.....	816	4
Walnut.....	Central Park avenue.....	Eastward.....	840	6
Washtenaw avenue.	12 ft. N. of Iowa.....	Northward.....	600	8
Washtenaw avenue	Harvard.....	Twelfth.....	1,286	8
Washtenaw avenue.	Crossing.....	Twenty-sixth.....	100	8
Webster avenue....	Lester.....	Westward.....	707	6
Whipple.....	Twenty-third.....	Northward.....	100	6
Total.....			115,863	
Add branch pipe for hydrants.....			480	4
Add branch pipe for hydrants.....			8,108	6
Total feet laid in West Division			119,451	

HYDE PARK DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Alley E. of Drexel blvd.	Forty-fourth.	Forty-fifth	632	6
Alley W. of Grand blvd.	342 ft. S. of Thirty-ninth.	Southward.	240	6
Alley W. of Grand blvd.	Forty-first	Fortieth.	589	6
Adams avenue	Eighty-first	Eighty-second	650	6
Adams avenue	Ninety-second	Ninety-first.	690	6
Adams avenue	Seventy-fifth	Seventy-sixth	664	6
Adams avenue	Eighty-third	Northward	690	6
Askum avenue	Eighty-seventh	So. Chicago avenue.	1,216	6
Avenue J.	23 ft. N. of Ninety-fifth	Hundred and sixth	7,360	6
Avenue L.	Hundred and third.	Hundred and fourth.	630	6
Bissell avenue.	Seventy-fourth place	Seventy-fourth.	369	6
Bond avenue.	Seventy-ninth	Eightieth.	643	6
Boulevard place.	Crossing	St. Lawrence avenue.	48	6
Brackett	State	Indiana avenue.	1,260	6
Brooks avenue	Seventy-third	Seventy-fifth.	1,326	6
Brooks avenue	Seventy-fifth	Seventy-sixth.	715	6
Calumet avenue	Fifty-ninth	Southward	390	6
Calumet avenue.	25 ft. N. of Forty-fourth.	Forty-fifth.	917	6
Carlin avenue.	Eighty-third	Eighty-second	618	6
Champlain avenue.	Seventy-second	Seventy-first.	666	6
Champlain avenue.	Forty-ninth	Southward	426	6
Cheltenham place	Crossing	Bond avenue	66	6
Coles avenue.	Seventy-fifth	Seventy-seventh	1,644	6
Coles avenue.	Seventy-seventh	Cheltenham place.	1,673	6
Curtis avenue	Hundred and seventh.	Northward	420	6
Curtis avenue	65 ft. S. of Hundred and eighth place	Northward	865	6
Cregier avenue.	Seventy-second.	Seventy-third.	664	6
Dobson avenue.	Seventy-sixth	Seventy-eighth	1,274	8
Drexel avenue	97 ft. S. of Fifty-eighth.	Fifty-ninth	500	6
Duncan avenue	Seventy-ninth	Eighty-second.	1,980	6
Duncan avenue	Seventy-ninth	12 ft. S. of Railroad avenue.	1,466	6
East End avenue.	Fifty-first	Northward	120	6
Edwards avenue.	Seventy-ninth	Railroad avenue	455	6
Eighty-eighth.	Mackinaw avenue.	Buffalo avenue.	380	6
Eighty-eighth.	Superior avenue	Mackinaw avenue.	745	6
Eighty-seventh.	Escanaba avenue	Askum avenue.	1,880	6
Eighty-third place.	Crossing	Commercial avenue.	54	6
Eighty-third.	Edwards.	Carlin avenue.	1,373	6
Eighty-third.	Adams avenue.	Madison avenue.	314	8
Eighty-third.	Washington avenue.	23 ft. E. of Jefferson avenue.	312	8
Ellis avenue	Sixty-third	Sixtieth.	1,920	6
Ellis avenue	Seventy-first	So. Chicago avenue	1,275	6
Erie avenue	Ninety-seventh	Northward	425	6
Escanaba avenue.	Eighty-seventh	Eighty-fourth.	2,074	6
Evans avenue.	Sixty-fourth.	Southward.	168	6
Evans avenue.	Sixty-seventh.	Northward	1,250	6
Evans avenue.	138 ft. S. of Sixty-fourth.	Southward	122	6
Evans avenue.	50 ft. S. of Sixty-fifth.	Northward	166	6
Evans avenue.	Seventy-third	Seventy-fifth.	1,333	6
Ewing avenue.	Ninety-third	500 ft. N. of Seventy-fourth.	1,346	6
Ewing avenue.	Hundred and sixth.	Hundred and seventh	870	6
Exchange avenue	South Chicago avenue.	Northward	212	8
Exchange avenue.	Crossing	Ninety-fifth.	64	6
Fiftieth place	Crossing	Forrestville avenue.	72	6
Fiftieth place	Crossing	St. Lawrence avenue.	72	6

HYDE PARK DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Fiftieth	Cottage Grove avenue	Eastward	840	6
Fiftieth	Crossing	St. Lawrence avenue	72	6
Fiftieth	Crossing	Forrestville avenue	72	6
Fiftieth	Crossing	Wabash avenue	102	6
Fifty-eighth	Crossing	Drexel avenue	94	6
Fifty-eighth	Madison avenue	Washington avenue	374	6
Fifty-eighth	Crossing	Michigan avenue	96	6
Fifty-eighth	Crossing	Wabash avenue	96	6
Fifty-fifth	Drexel avenue	Cottage Grove avenue	706	6
Fifty-fifth	Woodlawn avenue	Wharton avenue	1,653	6
Fifty-fourth place	Lake avenue	Madison avenue	1,050	6
Fifty-fourth	Crossing	Wabash avenue	67	6
Fifty-fourth	Crossing	Michigan avenue	104	6
Fifty-ninth	Prairie avenue	Calumet avenue	440	6
Fifty-ninth	Calumet avenue	South Park avenue	400	6
Fifty-ninth	Indiana avenue	State	1,320	6
Fifty-second	Crossing	Michigan avenue	108	6
Fifty-seventh	5 ft. E. of Cottage Grove avenue	Woodlawn avenue	2,625	6
Fifty-seventh	Crossing	Michigan avenue	96	6
Fifty-seventh	Crossing	Wabash avenue	96	6
Fifty-sixth	Crossing	Jackson avenue	48	6
Fifty-sixth	Crossing	Drexel avenue	24	6
Fifty-sixth	Crossing	Wabash avenue	96	6
Fifty-sixth	Crossing	Michigan avenue	96	6
Fifty-third	Crossing	Wabash avenue	102	6
Fifty-third	Crossing	Michigan avenue	112	6
Fifty-third	Crossing	Jackson avenue	42	6
Forrestville avenue	Crossing	Forty-fourth	24	6
Forrestville avenue	Forty-eighth	Fifty-first	1,951	6
Forty-eighth	Crossing	Wabash avenue	96	6
Forty-eighth	Crossing	St. Lawrence avenue	72	6
Forty-fifth	State	Michigan avenue	820	6
Forty-fifth	25 ft. E. of Michigan avenue	Grand boulevard	1,700	6
Forty-fourth	Langley avenue	Champlain avenue	340	6
Forty-fourth	Cottage Grove avenue	Evans avenue	319	6
Forty-fourth	Evans avenue	Langley avenue	153	6
Forty-fourth	Champlain avenue	Vincennes avenue	1,000	6
Forty-fourth	Vincennes avenue	Grand avenue	683	6
Forty-fourth	Crossing	Indiana avenue	96	6
Forty-fourth	Crossing	Wabash avenue	96	6
Forty-ninth	Crossing	St. Lawrence avenue	72	6
Forty-ninth	Crossing	Forrestville avenue	72	6
Forty-ninth	Crossing	Wabash avenue	96	6
Forty-second	Calumet avenue	Alley W. of Grand boulevard	168	6
Forty-second	Crossing	Wabash avenue	36	6
Forty-second	Lake avenue	Illinois Central Railroad tracks	543	6
Forty-second	Crossing	Indiana avenue	96	6
Forty-sixth	Cottage Grove avenue	Evans avenue	280	6
Forty-sixth	Vincennes avenue	Grand boulevard	671	6
Forty-sixth	28 ft. E. of Michigan avenue	Grand boulevard	1,726	6
Forty-sixth	Evans avenue	Champlain avenue	446	6
Forty-sixth	Cottage Grove avenue	Drexel avenue	541	6
Forty-sixth	State	Michigan avenue	810	6
Forty-sixth	Langley avenue	Champlain avenue	233	6
Front	Crossing	Hundred and fifteenth	43	8

HYDE PARK DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Grand boulevard...	Forty-fourth.....	Northward.....	314	6
Greenwood avenue...	203 ft. N. of Sixty-third..	Sixtieth.....	1,710	6
Greenwood avenue...	Crossing.....	Fifty-fifth.....	44	6
Houston avenue...	6 ft. S. of Ninety-eighth..	Ninety-sixth.....	1,300	6
Howard avenue...	Hundred and sixteenth.....	Hundred and eighteenth..	980	6
Indiana boulevard...	Ewing avenue.....	439 ft. S. of E. line of Ewing avenue.	470	6
Ione place.....	Vincennes avenue.....	Grand boulevard.....	600	6
Iron.....	Michigan avenue.....	State.....	585	6
Jackson avenue...	Fifty-third.....	Fifty-fourth.....	657	6
Jefferson avenue...	Ninety-first.....	Ninety-second.....	591	6
Jefferson avenue...	Eighty-first.....	Eighty-second.....	650	6
Jefferson avenue...	Eighty-third.....	Northward.....	685	6
Kimbark avenue...	Forty-ninth.....	Forty-eighth.....	658	6
Kimbark avenue...	Crossing.....	Forty-eighth.....	36	6
Kinney avenue...	Seventy-second.....	10 ft. N. of Seventy-first..	650	6
Langley avenue...	Sixty-ninth.....	Sixty-seventh.....	1,269	6
Langley avenue...	Sixty-fifth.....	12 ft. S. of Sixty-seventh..	1,422	6
Luella avenue...	Seventy-first.....	Seventy-third.....	975	6
Mackinaw avenue...	Eighty-sixth.....	298 ft. N. of Eighty-third..	2,311	6
Madison avenue...	Eighty-third.....	Northward.....	690	6
Madison avenue...	Eighty-first.....	Eighty-second.....	650	6
Manistee avenue...	4 ft. N. of Ninety-third..	Ninety second.....	600	6
Manistee avenue...	South Chicago avenue.....	Ninetieth.....	1,535	6
Manistee avenue...	Ninety-third.....	Ninety-fourth.....	600	6
Marquette avenue...	Ninety-second.....	4 ft. N. of Ninety-third..	602	6
Marquette avenue...	Ninety-third.....	Ninety-fourth.....	600	6
Marquette avenue...	Eighty-eighth.....	Eighty-seventh.....	648	6
McChesney.....	Sixty-fifth.....	Southward.....	620	6
Michigan avenue...	Brackett avenue.....	Northward.....	136	6
Michigan avenue...	Sixty-eighth.....	Sixty-seventh.....	600	6
Michigan avenue...	Crossing.....	Hundred and fifteenth.....	43	6
Michigan avenue...	Brackett avenue.....	Southward.....	80	6
Muskegon avenue...	Ninetieth.....	Eighty-eighth.....	1,270	6
Ninety-eighth.....	Sixth avenue.....	23 ft. E. of Seventh avenue.	350	8
Ninety-fifth.....	Commercial avenue.....	Manistee avenue.....	1,500	8
Ninety-first.....	Adams avenue.....	Westward.....	225	6
Ninety-second.....	Jefferson avenue.....	Adams avenue.....	292	6
Ninety-seventh.....	Erie avenue.....	Westward.....	106	6
Ninety-seventh.....	Commercial avenue.....	250 ft. E. of Houston avenue.	650	6
Ninety-third.....	Greenwood avenue.....	Madison avenue.....	1,000	6
Ninety-third.....	Madison avenue.....	Eastward.....	337	6
Hundred and eighteenth..	Indiana avenue.....	Howard avenue.....	350	6
Hundred and eighteenth..	Michigan avenue.....	State.....	585	6
Hundred and eighteenth..	Michigan avenue.....	Curtis avenue.....	344	6
Hundred and fourth.....	Avenue K.....	Avenue L.....	332	6
Hundred and seventh.....	Curtis avenue.....	Michigan avenue.....	354	8
Hundred and seventeenth..	Howard avenue.....	Front.....	872	6
Hundred and seventeenth..	State.....	Eastward.....	63	6
Hundred and sixteenth..	State.....	Eastward.....	131	6
Ontario avenue.....	Seventy-ninth.....	Eightieth.....	614	6
Ontario avenue.....	Eighty-fifth.....	230 ft. N. of Eighty-third..	1,516	6
Prairie avenue.....	Crossing.....	Forty-third.....	66	16
Prairie avenue.....	Forty-third.....	Fifty-first.....	5,268	14
Prairie avenue.....	Thirty-ninth.....	Forty-third.....	2,620	16
Reynolds avenue...	Seventy-ninth.....	Railroad avenue.....	970	6

HYDE PARK DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Saginaw avenue....	Eighty-seventh	Eighty-eighth.....	650	6
Sawyer avenue....	State	Eastward.....	67	6
Schill avenue	Seventy-fifth	160 ft. N. of Seventy-fourth	860	6
Seipp avenue	Seventy-first	Seventy-third.....	1,887	6
Seventh avenue	Ninety-eighth	Hundredth	1,884	6
Seventy-fifth	Spencer avenue	Eastward.....	322	8
Seventy-first	Spencer avenue	Westward.....	120	6
Seventy-first	Champlain avenue	78 ft. W. of Champlain avenue.....	121	6
Seventy-fourth place	Bissell avenue	Matterson avenue	377	6
Seventy-fourth	Bissell avenue	Railroad avenue.....	829	6
Seventy-ninth.....	Crossing	Bond avenue.....	80	6
Seventy-second	Langley avenue.....	Champlain avenue	327	6
Seventy-seventh.....	Dobson avenue.....	Greenwood avenue	330	6
Seventy third	Paxton	23 E. of Luella avenue.....	336	8
Sixtieth	Crossing	Michigan avenue.....	96	6
Sixtieth	Crossing	Wabash avenue	96	6
Sixty-first	Crossing	Michigan avenue.....	96	6
Sixty-first.....	Crossing	Wabash avenue	96	6
Sixty-first.....	Crossing	Wharton avenue	72	6
Sixty-first.....	Crossing	Ellis avenue	72	6
Sixty-second	Crossing	Ellis avenue	72	6
Sixty-second	Cottage Grove avenue....	Greenwood avenue	1,710	6
Sixty-second	Crossing	Wharton avenue ..	72	6
Sixty-second	Crossing	Michigan avenue.....	96	6
Sixty-second	Crossing	Drexel avenue.....	72	6
Sixty-second	Crossing	Wabash avenue	96	6
Sixty-second	Crossing	Greenwood avenue	72	6
South Chicago avenue....	Commercial avenue	Exchange avenue.....	537	8
South Chicago avenue....	Exchange avenue	Manistee avenue.....	1,648	8
South Park avenue....	Seventy-first	Southward	430	6
South Park avenue....	Fifty-second.....	Fifty-fifth	1,935	6
Spencer avenue	Seventy-fifth	Seventy-first	2,645	6
Spencer avenue	Seventy-fifth	Seventy-sixth.....	640	6
State.....	Hundred and seventh.....	Hundred and seventeenth.....	1,804	8
State.....	Hundred and fifteenth.....	Hundred and nineteenth.....	1,828	8
Stewart avenue....	Hundred and fifteenth	Hundred and sixteenth.....	624	8
St. Louis avenue	Fifty-first	Forty-sixth.....	3,264	6
Wabash avenue	Brackett avenue	Northward	140	6
Wabash avenue	Crossing	Brackett avenue.....	81	6
Washington avenue....	Eighty-first.....	Eighty-second	650	6
Washington avenue....	Ninety-first.....	Ninety-second	600	6
Washington avenue....	Eighty-second	Eighty-third	684	6
Washtenaw avenue....	Harvard	Northward	195	8
Wendell avenue	Eighty-third	S. line B. & O. right of way....	580	6
Wharton avenue....	Sixty-third	Sixtieth.....	1,920	6
Wharton avenue....	Fifty-fifth	Fifty-fourth place	528	6
Woodlawn avenue....	Seventy-fourth	95 ft. S. of Seventy-third.....	500	6
Total			144,457	
Add branch pipe for hydrants.			912	4
Add branch pipe for hydrants.			3,108	6
Total feet laid in Hyde Park			148,477	

LAKE VIEW DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Alley W. of Commercial ave.	Lawrence avenue.....	Webster avenue.....	1,584	6
Alley E. of E. Ravenswood pk	Leland	Lawrence avenue	578	6
Alley E. of E. Ravenswood pk	Wilson	Leland.....	584	6
Alley E. of E. Ravenswood pk	Wilson	Sunnyside.....	584	6
Addison avenue.....	Evanston avenue.....	Halsted.....	529	8
Addison avenue	Halsted.....	Clark.....	1,852	8
Addison avenue	Racine avenue.....	Herndon	660	8
Addison avenue.....	Robey	49 ft. W. of Wolcott.....	568	8
Aldine place.....	Crossing	571 ft. E. of Evanston avenue.....	58	6
Arlington.....	Lawrence avenue	Southward	1,950	6
Ashland avenue	Fullerton avenue	Northward	35	8
Beacon.....	Lawrence avenue	Southward	1,959	6
Belle Plaine avenue.....	Robey	Wood.....	1,223	6
Belle Plaine avenue.....	Leavitt	25 ft. E. of Lincoln avenue.....	989	6
Berenier.....	Robey	West Ravenswood park....	1,214	6
Berteau avenue	Robey	Wood.....	1,224	8
Berwyn avenue.....	N. Clark.....	Southport avenue.....	917	6
Bitter Sweet place.....	Halsted.....	Lake shore	810	6
Buena park terrace.....	Crossing	Hazel.....	38	4
Buena park terrace.....	Evanston avenue	Eastward	500	4
Byron	Robey	West Ravenswood park....	1,212	6
Cemetery drive.....	Clark.....	Westward.....	850	6
Center	Crossing	Lincoln avenue	79	6
Claremont avenue.....	Sulzer avenue	Southward	500	6
Cleveland avenue	Halsted.....	Clark.....	1,342	6
Commercial avenue.....	Byron	Grace.....	650	6
Commercial avenue.....	Grace	Nellie avenue.....	670	6
Cornelia.....	Lincoln avenue.....	Wood.....	250	6
Cornelia.....	Evanston avenue	Pine Grove avenue.....	492	6
Cornelia.....	Halsted.....	Evanston avenue.....	826	6
Cornelia.....	Robey	Wood.....	1,213	6
Cuyler	Lincoln avenue	Leavitt.....	1,150	6
Cuyler	Robey	Wood.....	1,223	6
Dover	Sunnyside avenue.....	Northward	108	6
Dover	Lawrence avenue	Southward	1,870	6
E. Ravenswood park	Grace	Nellie avenue.....	669	6
E. Ravenswood park	Byron	Grace	650	6
Eastwood avenue.....	Sheffield avenue	Halsted.....	1,235	6
Eddie.....	Southport avenue.....	Racine avenue.....	1,325	6
Eddie.....	Robey	Wood.....	1,213	6
Elaine place	Cornelia	Southward	47	6
Evanston avenue	North Fifty-ninth.....	Bryn Mawr avenue.....	2,663	6
Farragut avenue.....	Clark.....	Southport avenue	942	6
Faye.....	Lincoln avenue.....	West Ravenswood park....	1,062	6
Francis	Clark.....	Eastward.....	464	6
Frank	Diversey avenue	6 ft. S. of Surf.....	471	4
Graceland avenue	Lincoln avenue	Leavitt.....	1,986	8
Graceland avenue	East Ravenswood park....	Lincoln avenue	670	8
Graceland avenue	Clark.....	174 ft. W. of Alexander....	1,426	8
Halsted	Graceland avenue.....	Evanston avenue.....	535	6
Halsted	Fullerton avenue.....	Wrightwood avenue.....	1,400	16
Hazel	Buena avenue	Sulzer.....	1,200	6
Herndon	Crossing	Addison avenue.....	49	6
Huck	Lawrence avenue	Clay.....	1,276	6
Irving avenue.....	Sulzer	Southward	500	6

LAKE VIEW DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Jamot.....	Leavitt.....	Robey.....	1,250	6
Kenmore avenue...	Lawrence avenue...	Northward.....	836	6
Lake View avenue...	Fullerton avenue.....	Northward.....	392	6
Larrabee.....	Fullerton avenue.....	Frederick.....	452	6
Lawrence avenue...	Huck.....	Eastward.....	117	8
Lawrence avenue...	Clark.....	Sheffield avenue.....	3,445	8
Leavitt.....	Graceland avenue.....	Northward.....	672	8
Leo place.....	Lincoln avenue.....	Eastward.....	511	6
Lincoln avenue.....	Graceland avenue.....	Grace.....	1,469	8
Lincoln avenue.....	Graceland avenue.....	5 ft. N. of Belle Plaine.....	762	8
Lincoln avenue.....	Crossing.....	Belle Plaine.....	46	6
Lincoln avenue.....	Belle Plaine.....	Berteau avenue.....	786	8
Magnolia avenue...	23 ft. S. of Bryn Mawr.....	Balmoral avenue.....	1,817	6
Magnolia avenue...	North Fifty-ninth.....	Balmoral avenue.....	1,845	6
Maldon.....	Lawrence avenue.....	Southward.....	1,947	6
Marquette terrace...	Halsted.....	Eastward.....	350	6
May.....	Crossing.....	Wolfram.....	68	6
Meadow Lane.....	Kemper place.....	Ridge avenue.....	494	6
Meadow Lane.....	Grant.....	Kemper place.....	605	6
Nellie avenue.....	Clark.....	Racine avenue.....	808	6
Nelson.....	270 ft. E. of Blucher.....	Southward.....	356	6
Nelson.....	Paulina.....	Wood.....	645	6
Noble avenue.....	Crossing.....	Southward.....	38	6
Noble avenue.....	86 ft. E. of Seminary avenue.....	Baxter.....	226	6
Oak Grove place...	Clark.....	Racine avenue.....	472	4
Oakley avenue.....	Sulzer avenue.....	Southward.....	500	6
Paulina.....	South.....	Southward.....	578	6
Paulina.....	Noble.....	Nelson.....	843	6
Paulina.....	Wrightwood avenue.....	Northward.....	453	6
Paulina.....	Wellington avenue.....	Nelson.....	888	6
Pensacola.....	Robey.....	Westward.....	487	6
Pensacola.....	446 ft. W. of Robey.....	25 ft. W. of Hoyne avenue.....	244	6
Reta.....	Addison.....	Southward.....	45	6
Ridge avenue.....	Meadow Lane.....	404 ft. southeast.....	425	6
Ridge avenue.....	18 ft. S. of Hood avenue.....	Peterson avenue.....	850	6
Ridge avenue.....	Grand avenue.....	Hood avenue.....	500	6
Robey.....	Addison avenue.....	Cornelia.....	710	8
Robey.....	Sulzer.....	Pensacola.....	300	8
Robey.....	Graceland avenue.....	Berteau avenue.....	1,845	8
Robey.....	Grant avenue.....	Clay.....	658	6
Robey.....	Graceland avenue.....	Grace.....	1,819	8
Rokeby.....	Crossing.....	Addison avenue.....	86	6
Rokeby.....	Nellie avenue.....	Addison avenue.....	595	6
Rokeby.....	Addison avenue.....	Southward.....	614	6
Roscoe.....	Lincoln avenue.....	Wood.....	783	6
Seminary avenue...	Wellington avenue.....	Southward.....	48	6
Seminary avenue...	Crossing.....	Wolfram.....	70	6
South.....	Clark.....	Westward.....	548	6
St. Elmo.....	Robey.....	Wood.....	1,213	6
Sulzer avenue.....	Leavitt.....	Westward.....	1,618	8
Summerdale avenue...	Clark.....	Southport avenue.....	902	6
Sunnyside avenue...	Leavitt.....	Clairmont.....	976	6
Warner.....	Robey.....	Wood.....	1,220	6
Warner.....	Robey.....	Leavitt.....	1,810	6
Waubun.....	Swift avenue.....	Oakdale avenue.....	465	6

LAKE VIEW DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Webster avenue . . .	Clark	Eastward	688	6
Wellington avenue . .	Paulina	Wood	625	6
Wilson avenue	Clark	Eastward	1,550	6
Wilton place	Crossing	Addison avenue	84	6
Wilton place	Addison avenue	Cornelia	610	6
Wilton	Nellie avenue	Addison avenue	650	6
Wolfram	Halsted	Racine avenue	2,650	12
Total			94,178	
Add branch pipe for hydrants			804	4
Add branch pipe for hydrants			960	6
Total feet laid in Lake View			95,937	

LAKE DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Alley S. of Fifty-fifth	Morgan	Aberdeen	663	8
Alley S. of Fifty-fifth	Crossing	Ashland avenue	50	6
Alley N. of Fifty-fifth	Crossing	Ashland avenue	28	6
Alley N. of Fifty-fifth	Crossing	Union	66	6
Alley N. of Fifty-fifth	Crossing	Carpenter	25	6
Aberdeen	Alley S. of Fifty-fifth	Fifty-sixth	313	6
Aberdeen	Fifty-sixth	Southward	200	6
Ada	Fifty-ninth	Southward	629	6
Ada	Sixty-first	Sixty-second	660	6
Ada	Sixty-second	Southward	516	6
Archer avenue	Underwood avenue	4 ft. W. of Spencer	407	8
Ashland avenue	Forty-first	Northward	445	6
Atlantic	Forty-fifth	Southward	52	6
Berlin	Hoyne avenue	Robey	640	6
Berlin	Hoyne avenue	Leavitt	575	6
Birkhoff avenue	Eighty-third	Alley N. of Vincennes road	889	6
Bishop	Fifty-seventh	Fifty-eighth	648	6
Bishop	Sixty-third	Southward	246	6
Bishop	Fifty-seventh	Alley S. of Fifty fifth	996	6
Blanchard avenue	Fiftieth	Northward	167	6
Bristol	Wentworth avenue	19 ft. W. of Clark	504	6
Bronson	Loomis	Throop	700	6
Butterfield	Crossing	Forty-third	41	6
Carpenter	Alley S. of Fifty-fifth	Fifty-sixth	313	6
Carpenter	Eighty-sixth	22 ft. N. of Eighty-fifth	921	6
Claremont avenue	Sixty-ninth	Sixty-seventh	1,313	6
Claremont avenue	Crossing	Sixty-seventh	32	6
Claremont avenue	Sixty-ninth	Seventy-first	1,290	6
Dearborn	Fifty-ninth	Sixtieth	506	6
Eighty-second	Rock Island railroad	Westward	619	6
Eighty-seventh	Morgan	Carpenter	333	8
Eighty-seventh	Vincennes	Halsted	461	8
Eighty-seventh	Union avenue	Desplaines	333	8
Eighty-seventh	Halsted	Union	621	8
Eighty-seventh	Carpenter	Throop	1,685	8
Eighty-sixth	Morgan	Carpenter	333	6
Eighty-third	Kerfoot avenue	Birkhoff	296	8
Elizabeth	Eighty-seventh	Southward	59	6
Elizabeth	Sixty-second	Southward	525	6
Elizabeth	Sixty-second	Northward	200	6
Emerald avenue	Crossing	Forty-third	8	8
Emerald avenue	Thirty-ninth	8 ft. N. of Forty-seventh	5,300	16
Emerald avenue	Fifty-ninth	Southward	350	6
Emerald avenue	Crossing	Forty-seventh	33	16
Emerald avenue	Crossing	Forty-seventh	22	8
Fiftieth court	Halsted	Winter	589	6
Fiftieth court	Crossing	Union avenue	66	6
Fiftieth	Oakley avenue	Blanchard avenue	1,959	6
Fiftieth	Crossing	Union avenue	41	6
Fiftieth	Center avenue	Loomis	1,328	6
Fifty-eighth	Crossing	Ashland avenue	80	6
Fifty-eighth	Crossing	Halsted	92	6
Fifty-fourth court	Crossing	Union	25	6
Fifty-fourth court	Union	Wallace	634	6
Fifty-fourth	Crossing	Ashland avenue	80	6

LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Fifty-fourth	Crossing	Union	66	6
Fifty-second	Morgan	Eastward	700	6
Fifty-second	Crossing	Union avenue	66	6
Fifty-second	Crossing	Ashland avenue	80	6
Fifty-seventh	Crossing	Ashland avenue	80	6
Fifty-sixth	Crossing	Ashland avenue	80	6
Fifty-third	Crossing	Ashland avenue	50	6
Fortieth	Crossing	Ashland avenue	47	6
Forty-eighth	Crossing	Ashland avenue	80	6
Forty-fifth	Blanchard avenue	157 ft. W. of Western avenue	1,145	6
Forty-fifth	Emerald avenue	Halsted	281	6
Forty-fifth	Crossing	Ashland avenue	80	6
Forty first	Crossing	Ashland avenue	47	6
Forty-fourth	Crossing	Emerald avenue	66	6
Forty-ninth court	Crossing	Union avenue	66	6
Forty-ninth	Crossing	Ashland avenue	15	6
Forty-second	Crossing	Emerald avenue	66	6
Forty-second	Crossing	Wallace	28	4
Forty-second	Halsted	Emerald avenue	257	6
Forty-sixth	Crossing	Ashland avenue	30	6
Green	Seventy-seventh	Seventy-fifth	1,200	6
Green	Sixty-third	Southward	1,286	6
Goodspeed	Crossing	Sixty-seventh	44	6
Hanover	Fifty-first	Northward	376	6
Hart avenue	Fiftieth	Northward	250	6
Harvard	Seventy-fourth	Southward	204	6
Honore	Seventy-first	Southward	687	6
Hoynes avenue	Berlin	Seventy-first	998	6
Hoynes avenue	Forty-seventh	Forty-eighth	637	6
Hoynes avenue	Sixty-ninth	Berlin	315	6
Irving avenue	Sixty-ninth	Sixty-seventh	1,313	6
Irving avenue	Crossing	Sixty-seventh	33	6
Irving avenue	Sixty-ninth	Seventy-first	1,295	6
James place	Robey	Hoynes avenue	623	6
Lafayette avenue	8 ft. N. of Seventy-third	Southward	681	6
Lafin	Fifty-seventh	Alley S. of Fifty-fifth	996	6
Lafin	Sixty-third	Northward	336	6
Lincoln	Crossing	Sixty-seventh	41	6
Loomis	Fifty-ninth	Southward	623	6
Loomis	Sixty-first	Sixty-second	694	6
Manchester avenue	Hoynes avenue	Leavitt	580	6
Manchester avenue	Hoynes avenue	Robey	640	6
May	Fifty-first	Northward	641	6
Morgan	Eighty-sixth	38 ft. N. of Eighty-fifth	722	8
Morgan	Alley S. of Fifty-fifth	Fifty-sixth	373	6
Oakley avenue	Sixty-ninth	Sixty-seventh	1,313	6
Oakley avenue	Sixty-ninth	Seventy-first	1,295	6
Oakley avenue	Crossing	Sixty-seventh	33	6
Page	Seventy-first	Seventy-fourth	1,982	6
Paulina	Forty-seventh	Forty-sixth	660	6
Peoria	Sixty-third	Southward	1,286	6
Peoria	Seventy-seventh	Seventy-fifth	1,200	6
Peoria	Fifty-seventh	Northward	284	6
Peoria	Eighty-fifth	Northward	479	6
Perry	Seventy-third	Southward	674	6

LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Pleasant avenue...	Ninety-third	Ninety-fifth.....	1,325	6
Princeton avenue...	Crossing	Forty-fifth.....	25	6
Robey	Crossing	Sixty-seventh.....	39	8
Sackett	Fiftieth	Northward	250	6
Sackett.....	Fifty-sixth	Southward	125	6
Sangamon.....	Sixty-third.....	Southward	1,286	6
Sangamon	Seventy-seventh.....	Seventy-fifth.....	1,200	6
Seventieth.....	Hoynes avenue.....	Robey	640	6
Seventieth.....	Crossing	Dickey.....	66	6
Seventieth.....	Hoynes avenue.....	Leavitt.....	580	6
Seventieth.....	Crossing	Honore	66	6
Seventy-first.....	Hoynes avenue.....	Leavitt.....	580	6
Seventy-first.....	Crossing	Dickey.....	66	6
Seventy-first.....	Hoynes avenue.....	Robey	640	6
Seventy-first.....	Crossing	Honore	66	6
Seventy-third.....	Wentworth avenue.....	Lafayette avenue.....	923	6
Sherman	Crossing	Forty-third.....	41	6
Sixty-eighth.....	Crossing	Honore	80	6
Sixty-eighth.....	Crossing	Wright.....	25	4
Sixty-eighth.....	Crossing	Halsted	94	6
Sixty-fifth.....	Crossing	Halsted	88	8
Sixty-fifth.....	Crossing	Halsted	56	6
Sixty-first.....	Loomis	Throop	668	6
Sixty-fourth.....	Sherman.....	Wallace.....	242	6
Sixty-fourth.....	Emerald avenue	Halsted	225	6
Sixty-fourth.....	Crossing	Halsted	95	6
Sixty-ninth.....	Crossing	Hoynes avenue	25	6
Sixty-ninth.....	Crossing	Western avenue.....	40	8
Sixty-second.....	Center avenue.....	Elizabeth	350	6
Sixty-seventh.....	Crossing	Halsted	77	24
Sixty-seventh.....	Halsted	180 ft. E. of Ashland avenue	5,061	24
Sixty-seventh.....	Wood	Western avenue.....	4,061	8
Sixty-sixth.....	Crossing	Sherman	66	6
Sixty-sixth.....	Crossing	Halsted	94	6
Sixty-sixth.....	90 ft. W. of Sherman.....	Honore	645	6
Sixty-third court.....	Crossing	Halsted	54	6
Snider	Crossing	Wallace.....	25	6
Snider	Crossing	Emerald avenue.....	66	6
South Normal parkway.....	Crossing	Stewart avenue	77	6
South Normal parkway.....	Wright	Stewart avenue	604	6
South Normal parkway.....	Crossing	Wright.....	41	6
Spencer	Archer avenue.....	Southward	441	6
Stewart avenue.....	Sixty-ninth.....	South Normal parkway.....	219	8
Tracey avenue	Crossing	Forty-fifth.....	25	6
Throop.....	Sixty-first.....	Sixtieth.....	641	6
Throop.....	Crossing	Eighty-seventh.....	59	6
Throop.....	Sixty-first.....	Sixty-second.....	655	6
Union.....	Fifty-fifth	Northward	724	6
Union avenue.....	Forty-ninth	Fiftieth	668	6
Union.....	Vincennes road.....	Eighty-seventh	694	6
Union.....	Eighty-seventh.....	Northward	588	6
Union.....	Vincennes road.....	Eastward.....	158	6
Vincennes road	Seventy-third.....	Seventy-fourth.....	710	8
Wallace	Gordon	Northward	281	4
Wallace	Root	Forty-second.....	308	6

LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Wallace	Thirty-ninth	Southward	700	6
Ward avenue	Thirty-ninth	Southward	588	6
Webster avenue	Seventy-fourth	Southward	204	6
Wentworth avenue	Crossing	Seventy-third	24	8
Western avenue	Fifty-first	Northward	953	8
Western avenue	Forty-third	Forty-second	630	6
Western avenue	Sixty-seventh	Seventy-first	2,650	8
Western boulevard	Forty-third	Forty-second	630	6
William	Crossing	Forty-third	25	6
Winchester avenue	Crossing	Sixty-seventh	44	6
Winter	Fifty-ninth	Southward	350	6
Wood	Forty-seventh	Forty-sixth	700	6
Wood	Seventy-first	Seventy-fourth	1,982	6
Wright	Crossing	Forty-fifth	66	6
Total			94,373	
Add branch pipe for hydrants			672	4
Add branch pipe for hydrants			1,356	6
Total feet laid in Lake District			96,401	

JEFFERSON DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Allen avenue.....	Milwaukee avenue.....	Homan avenue.....	1,254	6
Armitage road.....	124 ft. W. of Howard avenue	Fifty-first.....	5,158	12
Ashland avenue.....	Willis.....	75 ft. N. of Franklin.....	1,450	6
Austin avenue.....	Maynard.....	400 ft. S. of Lawrence avenue.....	1,400	6
Avondale avenue.....	Belmont avenue.....	Southeast.....	1,636	6
Belmont avenue.....	60 ft. W. of Wallace.....	135 ft. W. of Byron.....	1,400	8
Belmont avenue.....	Holcom avenue.....	12 ft. N. of Madison.....	2,625	8
Belmont avenue.....	Crossing.....	Elston avenue.....	127	6
Belmont avenue.....	Elston avenue.....	Hammond.....	2,180	6
Berlin.....	Cromwell.....	California avenue.....	493	6
Bloomingtondale road.....	Norman avenue.....	Kedzie avenue.....	275	6
Brunswick.....	Eldridge.....	Center.....	420	6
Byron avenue.....	Garden avenue.....	Southward.....	350	6
Byron avenue.....	Belmont avenue.....	Garden avenue.....	1,300	6
Byron avenue.....	12 ft. W. of California avenue.....	Humboldt.....	725	6
Byron avenue.....	Humboldt boulevard.....	Eastward.....	16	6
Center avenue.....	Montrose boulevard.....	Northward.....	430	6
Center.....	St. Charles.....	Greenwood.....	443	6
Center.....	Crossing.....	Elston avenue.....	36	6
Center.....	Park avenue.....	Holcom avenue.....	590	6
Center.....	Irving avenue.....	Selwyn avenue.....	406	6
Center.....	Selwyn avenue.....	Park avenue.....	400	6
Center.....	Franklin.....	Southward.....	204	6
Central Park avenue.....	25 ft. N. E. of Milwaukee avenue.....	Northward.....	820	8
Clarkson avenue.....	Crossing.....	Humboldt.....	15	6
Columbia avenue.....	Grand avenue.....	Northward.....	450	8
Columbia avenue.....	Armitage.....	Humboldt.....	1,366	8
Columbia avenue.....	24 ft. W. of Milwaukee avenue.....	Leavitt.....	543	6
Crawford avenue.....	Milwaukee avenue.....	Southward.....	2,650	12
Crawford avenue.....	Diversey avenue.....	Northward.....	809	12
Danforth.....	Strong.....	Everett.....	885	6
Delamater place.....	Courtland.....	Southward.....	370	6
Dickens avenue.....	Crossing.....	Humboldt.....	16	6
Dickens avenue.....	Ballou avenue.....	Kimball avenue.....	485	6
Diversey avenue.....	Crossing.....	Milwaukee avenue.....	88	8
Diversey avenue.....	Crawford avenue.....	Eastward.....	122	8
Diversey avenue.....	Wallace.....	Eastward.....	145	8
Dowson.....	Milwaukee avenue.....	Garden avenue.....	1,800	6
Durham avenue.....	Crossing.....	Armitage.....	35	6
Dwight.....	Danforth.....	130 ft. E. of Everett.....	430	6
Edward.....	Lawrence avenue.....	Northward.....	426	6
Elderkin.....	Milwaukee avenue.....	Everett.....	2,100	6
Eldridge avenue.....	Central Park.....	Brunswick.....	576	6
Elston avenue.....	Belmont avenue.....	114 ft. N. of Roscoe.....	2,110	8
Elston avenue.....	Hoffman.....	California avenue.....	1,855	8
Elston avenue.....	Western avenue.....	Southward.....	1,278	8
Evergreen.....	Wallace.....	Humboldt.....	333	6
Everett.....	Selwyn.....	Westward.....	525	6
Everett.....	100 ft. W. of Park avenue.....	Washington.....	256	6
Fairview avenue.....	200 ft. S. of Diversey avenue	164 ft. N. of Evergreen.....	236	6
Fairview avenue.....	Evergreen.....	Northward.....	158	6
Fiftieth place (West).....	Crossing.....	Armitage avenue.....	35	6
Fiftieth (West).....	Crossing.....	Armitage avenue.....	35	8
Fifty-first (West).....	Crossing.....	Grand avenue.....	75	8
Fifty-fourth place (West).....	Crossing.....	Austin avenue.....	46	6

JEFFERSON DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Fortieth (West)...	Augusta	Southward	190	12
Francisco	Belmont avenue	Elston avenue	452	6
Franklin avenue	Wallace	Humboldt	832	6
Fullerton avenue	Milwaukee avenue	Kedzie avenue	1,800	8
Fullerton avenue	Crossing	Humboldt	255	8
Garden avenue	Byron avenue	Homan avenue	678	6
Gray	Lewis	Everett	1,233	6
Greenwood avenue	Prescott	Center	678	6
Greenwood avenue	Crossing	Western avenue	84	6
Greenwood avenue	Center	Elston avenue	1,240	6
Gresham	Milwaukee avenue	Northeast	1,185	6
Hammond avenue	Belmont avenue	40 ft. N. of Roscoe	1,300	6
Hammond avenue	Avondale	Southward	2,000	6
Harrison	70 ft. E. of Forty-fourth place	Forty-eighth	2,484	8
Hesing avenue	Koenig	Elston avenue	189	6
Holcom avenue	Center	Northwest	700	6
Holcom avenue	Willis	Belmont avenue	125	6
Holcom avenue	Montrose	Northwest	800	6
Hollowell	58 ft. S. of Huntington	73 ft. N. of Huntington	200	6
Homan avenue	Belmont avenue	Garden avenue	1,300	6
Humboldt	Evergreen	Humboldt boulevard	548	8
Humboldt avenue	Franklin	Southward	315	6
Humboldt avenue	Belmont avenue	Roscoe	1,200	6
Humboldt avenue	Crossing	Milwaukee avenue	70	6
Humboldt avenue	12 ft. S. of Armitage avenue	24 ft. N. of Cortland	560	6
Humboldt avenue	20 ft. S. of Cortland	Southward	230	6
Humboldt boulevard	Crossing	Nebraska	94	6
Humboldt boulevard	Bloomington road	Southward	300	6
Humboldt blvd (W.S.)	200 ft. N. of Armitage avenue	Shakespeare	912	6
Humboldt blvd (E.S.)	Armitage avenue	100 ft. S. of Shakespeare	1,006	6
Humboldt boulevard	Crossing	Clarkson	90	6
Humboldt	Shakespeare	Palmer	860	6
Hunting avenue	Holcom	Franklin	1,822	6
Huntington	Pratt	Hollowell	635	6
Irving avenue	Montrose boulevard	Northward	350	8
Irving avenue	Warner avenue	Montrose boulevard	5,284	8
Irving avenue	Milwaukee avenue	Warner avenue	773	8
Irving Park blvd.	Park avenue	Selwyn avenue	406	8
Jackson place	Armitage avenue	Northward	36	6
Jefferson avenue	Armitage avenue	Humboldt avenue	1,288	8
Kedzie avenue	Crossing	Fullerton avenue	124	6
Kedzie avenue	Belmont avenue	Garden avenue	1,288	6
Kedzie avenue	Crossing	Fullerton avenue	124	8
Kimble avenue	Diversey avenue	Southward	2,150	6
Kimble avenue	McLean	Northward	320	8
Koenig avenue	Belmont avenue	Hesing	620	6
Lawrence avenue	500 ft. E. of Edwards	627 ft. W. of Austin avenue	1,860	8
Lawrence avenue	Milwaukee avenue	Everett	875	8
Lewis	Crossing	Clybourn avenue	65	6
Lewis	Pratt	12 ft. N. of Elderkin	673	6
Maynard avenue	Milwaukee avenue	Austin avenue	1,787	6
Maynard avenue	Crossing	Austin avenue	44	6
Mead	12 ft. N. of Humboldt avenue	Mentmore avenue	573	6
Milwaukee avenue	304 ft. N. of Elderkin	123 ft. S. of Eastman	977	8
Montrose boulevard	Ashland avenue	Holcom	1,150	8

JEFFERSON DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Nebraska.....	28 ft. N. of Cortland	12 ft. S. of Armitage road..	556	6
Nebraska	Crossing	Humboldt boulevard	15	6
Norwood avenue	Kedzie avenue	Sheridan	682	6
Our	Lawrence avenue.....	Northward	1,090	6
Palmer avenue	Kedzie avenue	Eastward	465	6
Park avenue	Everett	12 ft. N. of Willis	3,850	6
Park avenue	Garden avenue	Belmont avenue.....	1,800	6
Pierce avenue.....	Sheridan avenue.....	Eastward	344	6
Pierce avenue.....	Sheridan avenue.....	Homan	625	6
Pratt	Elderkin	Strong	1,710	6
Prescott	Greenwood	Eastward	412	6
Shakespeare	Mozart	12 ft. W. of California avenue ..	345	6
Shakespeare	Crossing	Humboldt	33	6
Sheldon	Milwaukee avenue	Douglas avenue	1,340	6
Sheridan	12 ft. S. of Armitage avenue.....	Wabansia avenue.....	1,907	6
Sheridan	Belmont avenue	Garden avenue.....	1,289	6
Short	Milwaukee avenue.....	Eastward	497	6
Selwyn avenue.....	Montrose boulevard	Northward	330	6
Selwyn avenue.....	Warner avenue.....	Montrose boulevard	5,300	6
Seventeenth (West) ..	Fisk	Westward	170	6
Sobieski	Fullerton avenue	Southward	63	6
Stave	132 ft. S. of Cornelia	Southward	162	6
St. Charles avenue.....	Warner avenue	24 ft. N. of Irving Park boulevard ..	2,734	6
St. Charles avenue.....	24 ft. N. of Irving Park boulevard ..	12 ft. N. of Willis	1,966	6
Stewart avenue	Montrose	50 ft. N. of Franklin	738	6
Stewart avenue	60 ft. N. of Franklin.....	50 ft. S. of Madison	1,182	6
St. James avenue.....	Holcom	Washington	1,108	6
Sufferon	Leavitt	Robey	1,310	6
Thomas avenue.....	Belmont avenue	Elston avenue	1,085	6
Thomas avenue.....	Crossing	Fullerton avenue.....	124	6
Thomas avenue.....	Avondale	Southward	358	8
Thomas avenue.....	Crossing	Johnson avenue	125	6
Thomas avenue.....	Crossing	Milwaukee avenue	97	8
Vernon avenue.....	Milwaukee avenue.....	Douglas avenue.....	1,020	6
Wallace	Diversey avenue	Evergreen	673	6
Wallace	Belmont avenue	Elston avenue	1,750	6
Wallace	Avondale	Diversey avenue	2,214	6
Warner avenue.....	Milwaukee avenue	St. Charles avenue	1,345	8
Washington	Everett	Northward	316	6
Washington	St. James	Steward avenue.....	312	8
Western avenue.....	240 ft. S. of Diversey avenue.....	20 ft. S. of Evergreen.....	430	8
Willis	Hunting avenue	Holcom	670	6
Woodward.....	Milwaukee avenue	Byron avenue.....	1,232	6
Yannatta	Armitage avenue.....	Humboldt.....	1,288	6
Total.....			134,107	
Add branch pipe for hydrants.....			540	4
Add branch pipe for hydrants.....			3,768	6
Total feet laid in Jefferson District.....			138,415	

CALUMET DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Butler.....	Crossing.....	Hundred and eleventh.....	43	6
Butler.....	Hundred and fifteenth.....	Hundred and eleventh.....	2,597	6
Canal.....	Eighty-eighth.....	Southward.....	1,248	8
Carpenter.....	Eighty-seventh.....	Southward.....	867	6
Clark.....	Crossing.....	Hundred and sixteenth.....	43	6
Clark.....	Hundred and nineteenth.....	Hundred and twentieth.....	646	6
Clark.....	Hundred and nineteenth.....	Hundred and fifteenth.....	2,664	6
Clinton.....	Eighty-eighth.....	Southward.....	1,250	6
Dearborn.....	Hundred and eighteenth.....	Hundred and fifteenth.....	1,956	6
Dearborn.....	Hundred and eighteenth.....	Hundred and twentieth.....	1,841	6
Dearborn.....	Crossing.....	Hundred and fifteenth.....	43	6
Desplaines.....	Eighty-seventh.....	Southward.....	1,152	6
Desplaines.....	Eighty-seventh.....	Vincennes.....	1,122	6
Eighty-eighth.....	Desplaines.....	Canal.....	1,905	6
Evergreen place.....	Ninety-fifth.....	Ninety-fourth.....	674	4
Forrest avenue.....	Crossing.....	Ninety-third.....	80	6
Forrest avenue.....	Crossing.....	Ninety-fifth.....	48	6
Gano avenue.....	Hundred and seventeenth.....	Hundred and fifteenth.....	1,811	6
Hanover.....	Hundred and fifteenth.....	Hundred and eleventh.....	2,597	6
Hanover.....	Crossing.....	Hundred and eleventh.....	43	6
Howard.....	Crossing.....	Hundred and nineteenth.....	16	6
Jefferson.....	Eighty-eighth.....	Southward.....	1,247	6
La Salle.....	Hundred and fifteenth.....	Hundred and eighteenth.....	1,976	6
La Salle.....	Crossing.....	Hundred and fifteenth.....	43	6
Laurel.....	Ninetieth.....	Southward.....	348	6
Murray.....	100 ft. S. of Eighty-eighth.....	Southward.....	641	6
Ninety-first.....	Pine.....	Laurel.....	442	6
Ninety-fifth.....	Crossing.....	Prospect avenue.....	177	8
Ninety-fifth.....	Prospect avenue.....	Forrest avenue.....	568	8
Hundred and eighteenth.....	Stewart avenue.....	Dearborn.....	2,222	6
Hundred and eighteenth.....	Crossing.....	Dearborn.....	43	6
Hundred and eleventh.....	Wallace.....	86 ft. E. of Stewart avenue.....	1,324	8
Hundred and fifteenth.....	Crossing.....	Canal.....	43	6
Hundred and fifteenth.....	Canal.....	Park avenue.....	668	12
Hundred and fifteenth.....	Gano.....	Michigan avenue.....	2,870	12
Hundred and nineteenth.....	Portland avenue.....	Clark.....	1,296	6
Hundred and seventeenth.....	Gano.....	Clark.....	1,618	6
Hundred and sixteenth.....	Stewart avenue.....	Portland avenue.....	652	6
Hundred and sixteenth.....	Wentworth avenue.....	Dearborn.....	929	6
Park avenue.....	Crossing.....	Hundred and fifteenth.....	44	8
Parnell.....	Crossing.....	Hundred and eleventh.....	43	6
Parnell.....	Hundred and fifteenth.....	Hundred and eleventh.....	2,597	6
Pine.....	Ninety-first.....	Ninetieth.....	634	6
Pine.....	Ninety-first.....	Ninety-second.....	657	6
Portland avenue.....	Crossing.....	Hundred and nineteenth.....	23	6
Portland avenue.....	Hundred and nineteenth.....	Hundred and fifteenth.....	2,617	6
Prospect avenue.....	Crossing.....	Ninety-fifth.....	48	6
Sheffield avenue.....	Crossing.....	Hundred and nineteenth.....	12	8
Shurtleff avenue.....	Crossing.....	Hundred and fifteenth.....	43	6

CALUMET DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Shurtleff avenue....	Hundred and fifteenth....	Hundred and nineteenth...	2,659	6
Stewart avenue....	Hundred and fifteenth....	Hundred and eleventh....	2,640	8
Union.....	Eighty-eighth.....	Southward.....	1,261	6
Wallace.....	Eighty-eighth.....	Southward.....	1,250	6
Wallace.....	Hundred and fifteenth....	Hundred and eleventh....	2,640	8
Wentworth avenue..	Crossing.....	Hundred and fifteenth....	48	8
Wentworth avenue..	Hundred and eighteenth..	Hundred and fifteenth....	1,976	8
Total.....			57,843	
Add branch pipe for hydrants.....			836	4
Add branch pipe for hydrants.....			1,020	6
Total feet laid in Calumet District....			58,699	

RECAPITULATION OF PIPE LAID DURING 1891, INCLUDING HYDRANT BRANCHES.

DIVISION.	DIAMETER OF PIPE IN INCHES.									Total length of pipe in feet.
	4-inch.	6-inch.	8-inch.	12-inch.	14-inch.	16-inch.	24-inch.	36-inch.	48-inch.	
North.....	148	3,275	2,288	.....	.....	.....	.....	.....	.....	5,711
South	388	9,372	1,646	27	.....	921	16	16,069	30	28,449
West	1,721	65,323	43,897	8,971	.....	39	.....	.....	.....	119,451
Hyde Park.....	912	128,965	10,646	.....	5,268	2,686	.....	.....	.....	148,477
Lake View.....	2,285	68,764	20,838	2,650	.....	1,400	.....	.....	.....	95,937
Lake.....	956	70,689	14,285	.....	.....	5,833	5,138	.....	.....	96,401
Jefferson	540	95,544	38,529	8,802	.....	.....	.....	.....	.....	188,415
Calumet.....	1,010	43,479	10,672	3,538	.....	.....	.....	.....	.....	53,699
Total in Feet.....	7,940	485,411	137,301	28,988	5,268	10,879	5,154	16,069	30	691,540

THE FOLLOWING TABLE SHOWS THE NUMBER OF STOP-VALVES PUT IN DURING THE YEAR 1891, IN THE CITY OF CHICAGO.

DIVISION.	SIZE OF VALVES.									TOTAL
	4-in.	6-in.	8-in.	10-in.	12-in.	14-in.	16-in.	24-in.	36-in.	
North	1	2								4
South		15	3		1		2	5	4	30
West	7	126	70		19			1	3	226
Hyde Park	2	173	15	2	10	4	4			210
Lake View	4	86	38		4		1	1		134
Lake	5	155	36				3			199
Jefferson		184	59		13					256
Calumet	1	32	13		5					51
TOTALS	20	773	235	2	52	4	10	7	7	1,110

TABLE SHOWING NUMBER AND SIZES OF VALVES IN USE IN THE CITY
OF CHICAGO AT THE END OF 1891, INCLUDING THOSE IN
WASHINGTON HEIGHTS NOT SCHEDULED LAST YEAR.

DIVISION.	SIZE OF VALVES.												TOTAL	
	3-inch.	4-inch.	6-inch.	8-inch.	10-inch.	12-inch.	14-inch.	16-inch.	18-inch.	20-inch.	24-inch.	30-inch.		36-inch.
North.....	.....	169	406	274	....	32	....	13	....	....	12	....	3	909
South.....	.....	154	685	626	....	79	....	18	....	....	27	....	13	1,552
West.....	.....	565	1,768	1,018	....	227	....	63	....	....	31	....	11	3,678
Hyde Park.....	.....	78	686	154	20	49	4	41	....	1	13	3	3	1,052
Lake View..	1	241	504	101	....	26	3	2	....	3	3	....	..	884
Lake.....	4	105	777	225	2	50	13	12	2	....	14	....	...	1,204
Jefferson.....	.....	.....	240	113	....	22	....	....	....	....	....	....	....	375
Calumet.....	.....	1	54	25	....	5	....	....	....	....	....	....	....	85
TOTAL..	5	1, 313	5,065	2,536	22	490	20	149	2	4	100	3	30	9,739

The following table shows the hydrants placed in 1891, in the city of Chicago:

DIVISION.	2½-inch Single.	2½-inch Double.	4-inch Double.	2½-inch Double, with 4-inch Single.	TOTAL.
North.....	9	14	2	.....	35
South.....	12	24	.....	.....	36
West.....	40	259	.....	.....	299
Hyde Park.....	76	259	.....	.....	335
Lake View.....	67	80	.....	.....	147
Lake.....	56	113	.....	.....	169
Jefferson.....	45	314	.....	.....	359
Calumet.....	28	88	.....	2	113
Totals.....	338	1,146	2	2	1,488

Table showing total number of fire hydrants in the City of Chicago at the close of 1891, including those in Washington Heights not scheduled last year, and excepting those in Pullman which are private property.

DIVISION.	2½-inch Single.	2½-inch Double.	4-inch Double.	2½-inch Double, with one 4-inch Single.	TOTAL.
North.....	417	473	181	.....	1,021
South.....	768	950	192	.....	1,910
West.....	1,463	3,124	237	.....	4,824
Hyde Park.....	192	1,230	8	605	2,035
Lake View.....	92	753	.....	1	846
Lake.....	67	318	.....	1,597	1,982
Jefferson.....	45	543	.....	.....	588
Calumet.....	28	122	.....	55	205
Total.....	3,072	7,513	568	2,258	13,411

**TABLE SHOWING AMOUNT OF PIPE IN USE IN THE CITY OF
CHICAGO AT THE CLOSE OF 1891.**

The pipe in Washington Heights was not scheduled last year but is now included in the amount in use in 1891.

Diameter of Pipe.	1890.	1891.			
	Amount in Use in Feet.	Amount Taken up or Abandoned in Feet.	Amount Laid in Feet.	Grand Total in Feet in Use at the close of 1891.	Grand Total in Miles.
48	1,825	.....	30	1,355	0.1188
36	75,272	.....	16,069	91,341	17.1188
30	5,577	.....	.....	5,577	1.2276
28	160	.....	.....	160	0.1188
24	178,875	.....	5,154	184,029	34.1188
20	7,981	.....	.....	7,981	1.1188
18	1,000	.....	.....	1,000	0.1188
16	194,872	.....	10,379	204,751	38.1188
14	17,284	.....	5,268	22,552	4.1188
12	416,417	.....	23,988	440,405	83.1188
10	26,860	.....	.....	26,860	5.1188
8	1,307,710	.....	137,301	1,445,011	273.1188
6	3,094,144	.....	485,411	3,579,555	677.1188
4	1,076,345	920	7,940	1,083,365	205.1188
3	16,964	.....	.....	16,964	3.1188
Total in Feet.....	6,420,236	920	691,540	7,110,856	.....
Total in Miles.....	1,215.1188	0.0001	130.1188	1,346.1188	1,346.1188

At time of annexation there was in use in Washington Heights :

27,735 feet of 6-inch Water Pipe.

29,245 feet of 8-inch Water Pipe.

22 6-inch Stop Valves.

12 8-inch Stop Valves.

38 2½-inch Double Hydrants.

53 2½-inch Double Hydrants with one 4-inch Single Nozzle.

During the year 419 meters have been placed, and removed 197: a net gain of 222. There are in actual use in the city, January 1, 1892, 4,131 water meters. Ten motors for church organs have been connected with the main supply, and thirteen new school houses.

The revenue collected during the year amounted to \$717,068.05: a net increase of \$45,907.95.

Hydraulic elevators in use December 31, 1890.....	303
Added during the year	<u>1</u>
Total	304

The subject of water works operation and construction is treated of in the subjoined Report of the First Assistant City Engineer, Mr. Bernhard Feind.

Respectfully yours,

L. H. CLARKE,

City Engineer.

FIRST ASSISTANT CITY ENGINEER'S REPORT.

CHICAGO, February 29, 1892.

L. H. CLARKE, Esq.,

City Engineer.

DEAR SIR:—I beg leave to submit in the following an annual report for the year 1891, on operation of the existing water supply system and on construction of additions and improvements.

Water Pipe Extension and Meter Service are not dealt with in this report.

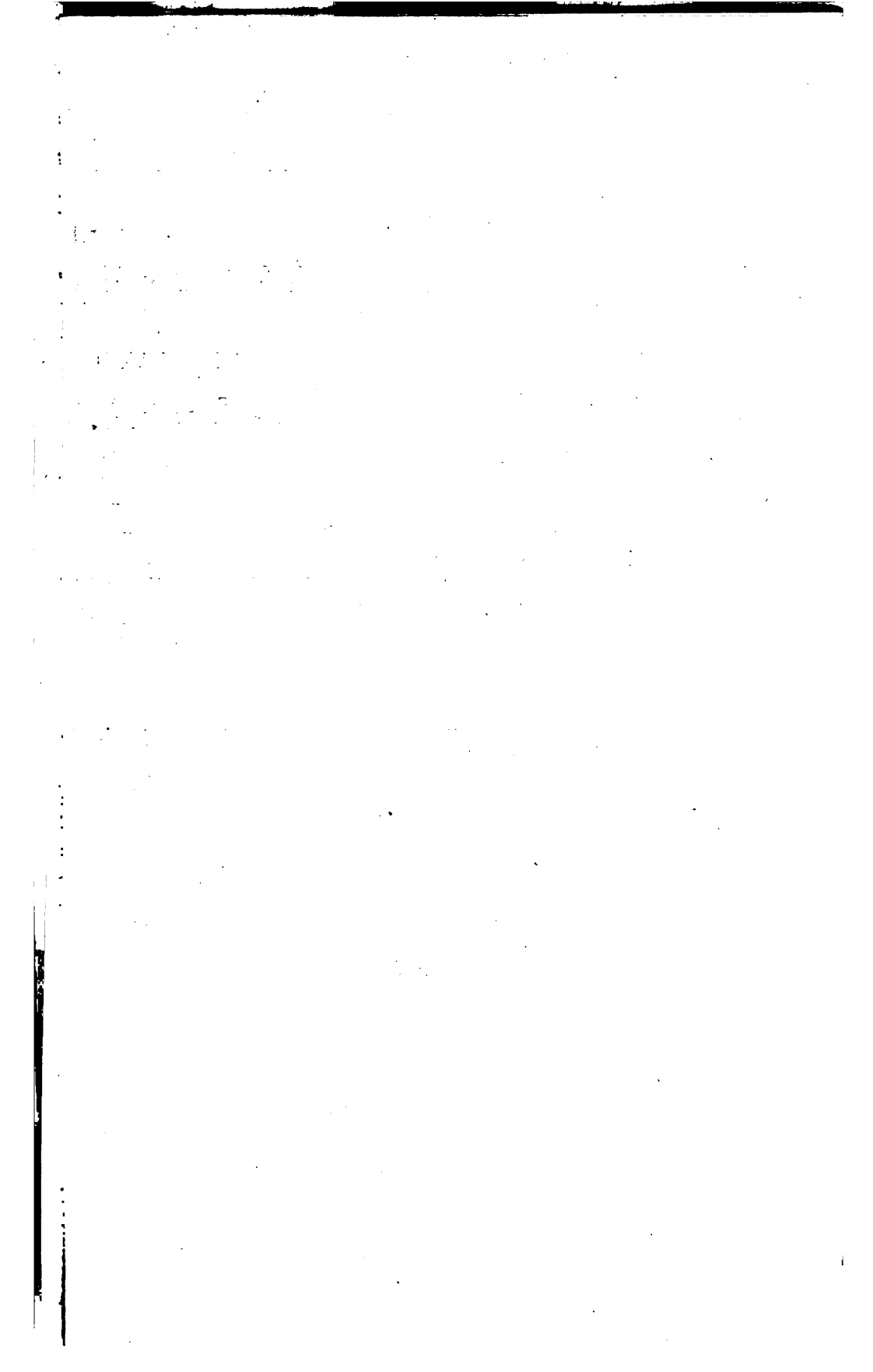
"A"—OPERATION.

The appended diagram shows daily pumpages; table *A* gives monthly pumpages; table *B* gives the most important figures relating to quantities and expenses.

The total quantity pumped during the year by all the pumping stations combined was 63,551,706,550 gallons, which makes an average of 174,114,264 gallons for the whole city per day of twenty-four hours. The population of the city in October, 1890, at the conclusion of the last school census, was 1,218,669. The ratio of increase may safely be estimated at 100,000 per annum, or 8,000 per month. This would give a population of 1,218,669 + 9 × 8,000 = 1,290,000 during July, 1891. Applying the latter figure to a computation of the average rate of consumption of water for the year 1891, we find this rate to have been $174,114,264 \div 1,290,000 = 135$ gallons per head per day. Commencing at the period when Chicago began to assume metropolitan dimensions, the corresponding figures, arranged quinquennially, have been as follows:

Years.	Population.	Co-efficient of increase in population within 5 Years.	Consumption of Water in gallons per head per day of 24 hours.	Co-efficient of increase in consumption within 5 Years.
1865.....	178,492	.....	42.0 *	.....
1870.....	298,700	1.68	72.8	1.73
1875.....	401,000 *	1.34	99.7 *	1.87
1880.....	512,060	1.28	112.0	1.12
1885.....	765,000 *	1.49	116.0 *	1.04
1890.....	1,200,000	1.57	126.8	1.09

* Interpolated.



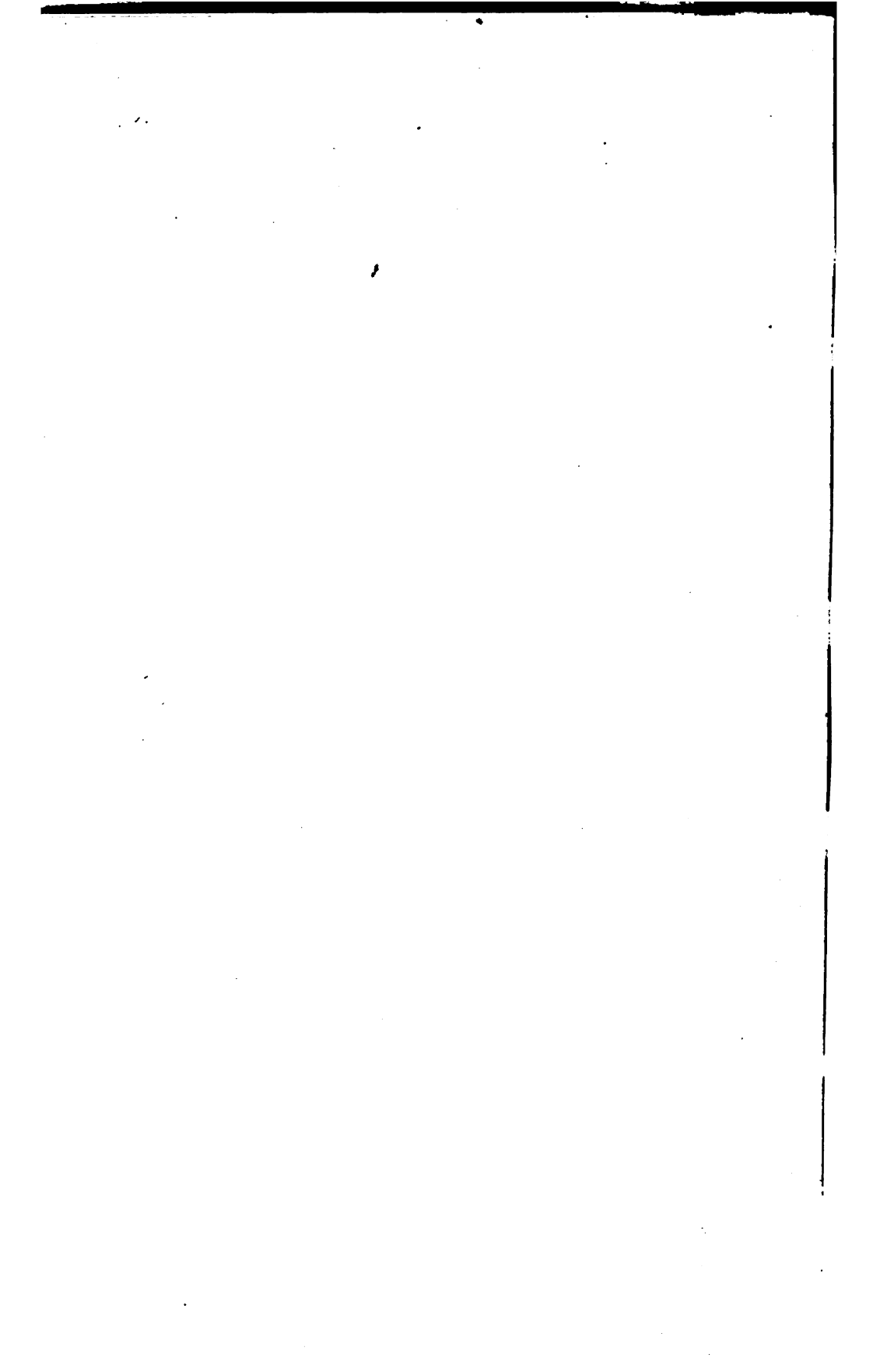


TABLE "A." MONTHLY PUMPAGE 1891, IN GALLONS.

MONTH.	North Pumping Works.	West Pumping Works.	68th Street Pumping Works.	Central Pumping Works.	Lake View Pumping Works.	Washington Heights Pumping Works.	The City as a Whole.
January.....	1,519,685,720	1,790,362,320	857,013,568	438,595,607	216,199,658	4,440,000	4,821,296,873
February.....	1,453,980,325	1,646,124,780	770,705,702	441,542,123	200,029,786	4,440,000	4,516,822,716
March.....	1,442,025,270	1,853,919,720	843,581,505	626,758,790	236,098,504	4,440,000	5,006,758,789
April.....	1,636,672,325	1,753,591,960	834,826,876	461,689,579	246,815,817	4,440,000	4,937,966,557
May.....	1,716,469,830	1,832,797,540	991,130,779	475,190,924	327,751,847	4,772,000	5,348,112,920
June.....	1,838,504,525	1,829,221,620	910,863,745	469,407,368	356,025,415	6,359,000	5,810,881,688
July.....	1,903,560,145	1,924,508,780	1,055,574,168	482,863,585	416,881,252	6,479,000	5,789,816,930
August.....	1,948,946,055	1,909,509,820	1,100,808,231	480,714,528	367,521,043	4,762,000	5,812,261,677
September.....	1,944,114,975	1,867,604,700	1,032,069,213	488,202,888	390,831,169	4,957,000	5,697,269,945
October....	1,900,313,530	1,873,365,200	1,089,609,192	505,142,453	349,353,206	4,870,000	5,672,458,581
November.....	1,736,797,365	1,777,774,580	957,501,249	474,585,724	206,624,336	4,385,000	5,157,698,254
December.....	1,848,616,405	1,837,787,520	1,118,493,086	468,324,756	182,413,853	5,010,000	5,480,645,620
	20,869,686,470	21,896,568,540	11,412,173,814	5,807,968,340	3,485,955,896	59,354,000	63,551,706,550

TABLE "B." OPERATIONS OF PUMPING STATIONS DURING 1891.

	North Side.	West Side.	68th Street.	Central.	Lake View.	Washington Heights.	The City as a Whole.
Tons of Anthracite Coal...	8,680,855						8,680,855
Tons of Bituminous Coal...	9,875,806	18,883,138	7,996	3,135	3,809,186	255,188	48,904,135
Gallons of Fuel Oil...			274,799				274,799
Price of Anth. Coal per ton	\$5.15						\$5.15
Price of Bit. Coal per ton.	8.18	\$2.79	\$2.88	\$3.05	\$2.75	\$3.42	2.90
Price of Fuel Oil per 100 gallons.			1.20				1.20
Cost of Anthracite Coal...	\$ 44,705.39						\$ 44,705.39
Cost of Bituminous Coal...	31,431.85	\$ 52,592.33	\$ 22,268.68	\$ 9,568.54	\$ 10,474.99	\$ 878.15	127,214.04
Cost of Fuel Oil...			3,297.57				3,297.57
Total Cost of Fuel...	76,136.74	52,592.33	25,566.25	9,568.54	10,474.99	878.15	175,216.99
Salaries.....	46,246.21	42,670.02	38,091.17	19,028.00	11,640.94	1,537.96	159,214.30
Cost of Oil and other stores	9,350.47	12,742.08	2,968.47	1,256.10	835.28	40.00	26,692.40
Total expenses due to pumpage.....	131,733.42	108,004.43	66,635.89	29,852.64	22,451.21	2,456.11	361,133.70
All other expenses combined.....	1,888.56	1,953.81	2,286.37	12,686.97	750.00	35.00	19,568.21
Grand total expenses.....	133,621.98	109,957.74	68,912.26	42,519.61	23,201.21	2,481.11	380,691.91
Total gallons pumped during year.....	20,889,686.470	21,896,568,540	11,413,173,314	5,807,968,340	8,485,955,886	59,354,000	63,551,705,560
Per cent of pumpage of city, as a whole.....	32.8	34.4	18.0	9.1	5.5	0.2	100.0
Greatest amount pumped in one day; gallons.....	72,381,165 Sept. 25	65,168,560 Sept. 26	38,667,892 Aug. 15	23,018,684 Oct. 25	14,659,442 July 15	295,000 July 24	201,501,891
Least amount pumped in one day; gallons.....	38,663,700 Mar. 22	49,523,880 Oct. 25	11,899,750 June 1	11,188,200 Jan. 17	201,264 Dec. 1	65,000 May 10	140,775,876
Average pumped per day; gallons.....	57,232,013	59,990,599	31,266,228	15,912,942	9,550,564	162,613	174,114,254
Average head against pumping; in feet.....	108.4	105.9	135.0	102.0	108.0	115.0	110.0
Cost of Fuel, pumping 1,000,000 gallons, per foot head.....	3.76c	2.70c	1.76c	1.76c	2.73c	12.87c	2.56c
Total Cost of pumping 1,000,000 gallons, per foot head.....	5.83c	4.85c	4.47c	5.06c	5.48c	35.88c	5.16c

NORTH SIDE PUMPING STATION.

At the *North Side Pumping Station*, which is in charge of Mr. D. H. Welch, the "72" engine, 36 mill., and the two "Gaskill" engines, 12 mill. each, were thoroughly overhauled in January. These three engines and the "67" engine, 18 mill., are in good condition and fit for continued service. The "53" and "57" engines, 8 mill. and 12 mill., respectively, have outlived their usefulness, and so have the old marine boilers. These obsolete and worn-out parts of the plant should soon be replaced by others of modern design. The *Shops* attached to this station have turned out during the year, in addition to the usual repairs for the various branches of the water supply system, the following new pipe line fixtures :

539 Hydrants, Single Nozzle.....	Costing \$ 8,404 17
1,475 " Double " 2½ in.....	" 45,971 60
4 " " " 4 ".....	" 91 13
90 Stop-Valves, 4 in.....	" 883 13
784 " 6 ".....	" 11,546 50
297 " 8 ".....	" 6,698 39
45 " 12 ".....	" 1,291 66
8 " 16 ".....	" 923 82
3 " 24 ".....	" 589 39

Total cost of labor and material for new fixtures..... \$76,349 79

Expenditures on account of the repairs above named..... \$15,810 23

WEST SIDE PUMPING STATION.

At the *West Side Pumping Station*, with its four 15 mill. engines, which is in charge of Mr. James Stewart, the regular annual overhauling of the engines has been postponed in the expectation that it would be carried out with less inconvenience to the water supply system, as a whole, when additional new engines shall have been put into service at the new Central and South Side Stations. The boilers have undergone thorough repairs, and the whole of the plant is in good condition.

CENTRAL PUMPING STATION.

At the *Central Pumping Station*, which is in charge of Mr. Charles McDonald, as a rule only one of the two engines has been operated at a time, owing to lack of water. The engines, two "Reynolds" vertical condensing triple expansion ones, 15 mill. each with use of two-thirds of full boiler capacity, 18 mill. each with use of full boiler capacity, were, on October 25th, subjected to a test which showed a duty performance exceeding the guaranteed one of 125-mill. ft. lbs. per 1,000 lbs. of feed water, and were shortly afterwards finally accepted by the city. No repairs have been made during the year, except the resetting of one battery of boilers, rendered necessary by a settlement of the boiler foundations; the other battery will need resetting shortly for the same reason; otherwise the plant is in good order.

The west 10 feet of the boiler and coal rooms have not been finished yet, the city having been put into possession of the disputed strip of ground in that place only a short time ago.

SIXTY-EIGHTH STREET PUMPING STATION.

At the *Sixty-eighth Street Station* Mr. A. O. Parker, the engineer in charge, has been enabled to keep the 58-mill. plant, which is housed in two different buildings, and consists of three modern 12-mill. engines and a number of small engines of antiquated design, in fair order, by dint of rather a little more than the usual amount of repairs. The newest engine is a "Worthington High Duty" 12-mill. one, which has been operated by the city's own men only since June 20, after it had been tested with results exceeding the guarantee of 110-mill. feet pounds per 100 pounds of anthracite coal, and had been finally accepted on the part of the city. Oil has been introduced as fuel in this station during the year in the way of experiment, and the results have been so satisfactory, both as to economy and to abatement of the smoke nuisance, that arrangements are being made for consumption of oil on a large scale. The station will have an oil-pipe line of its own. This station is about to receive an addition, which will be treated of later on.

LAKE VIEW PUMPING STATION.

At the *Lake View Pumping Station*, which is in charge of Mr. F. D. Parker, excessively low lake levels during November and December (the mean for those two months was -0.7 , while the mean for June and July was $+0.5$) compelled the entire stoppage of the only large modern engine of that station (a 12-mill. Gaskill) for six weeks at a time; and the North Side pumping station was frequently drawn upon for large quantities of water by the Lake View district, through a 16-inch pipe on Halsted street between Fullerton and Wrightwood avenues, which had been laid previously in order to connect intimately the pipe system of the old city with that of the Lake View district. An important improvement in the system of in-take pipes, which is described under the head of "Construction," was effected during this period. The plant has been put into good order for summer service, but there still remains this serious deficiency—that if for any reason the large engine (12-mill. Gaskill) must be stopped, the two small engines (5-mill. Worthington and 2-mill. Vergennes) are entirely inadequate to the needs of the district. An additional large engine is imperatively required.

WASHINGTON HEIGHTS PUMPING STATION.

The capacity of the small *Pumping Station at Washington Heights*, the only one which does not draw its supply from Lake Michigan (Mr. George M. Inman in charge), is fast becoming insufficient for the needs of its district. It can be enlarged easily and at small expense, the flow of the artesian well being abundant.

Generally speaking, the excessively low lake level during the year (the annual mean was only about city datum) caused a great deal of inconvenience and expense throughout the system. All the engines had to work against an increased suction-head, and at the North Side station the "53" and "57" were frequently out of water altogether, and the "67" often had only a few inches of water above the suction openings.

The Lake View station suffered most, as has been hinted above, and will be further explained later on.

TWO-MILE CRIB.

A serious accident occurred at the *Two-Mile Crib* shortly after the close of the year. Early on the morning of January 21, 1892, the ports admitting the water through the crib to the inner well became choked with ice, and for the greater part of the day the North Side, West Side and Central pumping stations received a very small amount of water, only sufficient to enable them to fill the pipe system with a flow without pressure. The arrangement of the breakwater surrounding the crib, with its single opening on the west traversed by a fixed surface screen only, must be considered as having been proved faulty by this its first serious test and should be changed during the coming summer. The water famine was aggravated by the fact that the submerged pipe in-take for Lake View station and the submerged crib in-take for the Sixty-eighth street station had become choked with ice simultaneously with the Two-mile crib; the flow at the Sixty-eighth street crib, however, freed itself in a short time.

"B"—CONSTRUCTION.

LAKE VIEW TUNNEL.

The *Lake View Tunnel*, in charge of Mr. H. C. Leach, has been pushed out to a distance of 5,312.8 feet from shore, 1,584 feet of which was constructed during the year. The excavation has been in limestone rock throughout, and the work has been slow as well as expensive in consequence. It is contemplated to raise the grade above the rock, and action looking towards this end is being taken.

LAKE VIEW CRIB.

The *Crib*, 10,000 feet from shore, has been set and finished, but work on the in-take shaft inside of the crib has not yet been begun. The contractors are Shailer & Schniglaui.

NEW STEEL INLET PIPE.

Owing to abnormally low lake level the in-take pipes for the Lake View pumping station, four in number and from sixteen to thirty inches in

diameter, the shore ends of all of which were not laid deep enough for such low stages of water, ran almost dry at times during the latter part of the year.

To remedy this, the shore end of the largest of them, thirty inches in diameter, which consisted of a wooden box thirty inches square with its top one foot above city datum, was exchanged for a *steel pipe* of the same construction as the lake end, with its top six inches below city datum, and since December 24, when the water was admitted through the new pipe for the first time, there have only been rare shortages of supply, caused by anchor ice. The contractors were Shailer & Schniglaui.

The blow-pipe which had been found so efficient against anchor ice in the last winter had been destroyed during a violent storm just preceding the period of severely cold weather in the beginning of 1892, and it has only been possible to replace it late in January, since which time there has been no further trouble from anchor ice up to date of present writing (end of February, 1892).

NORTH SHORE INLET EXTENSION.

The *North Shore Inlet Extension* was constructed almost entirely during the year 1891, although the important and extremely difficult task of connecting the new with the old work was not finished before February 1, 1892.

The improvement consists of about 3,000 feet of 7-foot tunnel, and a new crib containing an in-take shaft as well as a working shaft (the latter for the purposes of future extension) and located 4,500 feet from shore at the northwestern extremity of the exterior United States breakwater, a little to the north of the line of the old 5-foot and 7-foot tunnels, between the North Side pumping station and the Two-mile crib.

After divers methods to connect the new work with the old shore in-take shaft, 1,500 feet from shore, had failed, on account of the leaky condition of this shaft with its surrounding crib, it became necessary to fill the old shaft entirely with concrete, in bags, and to construct a 7-foot by-pass curving around it from the new tunnel into the old one, to which end the latter had to be pumped dry. This improved shore inlet is now ready for use. The contractors were Lydon & Drews.

The engineers in charge were successively Messrs. W. D. Hotchkiss, Francis F. Hopp and John Ericson, the latter since the middle of January, 1892. Mr. D. H. Welch, the engineer in charge of the North Side pumping station, also devoted a great deal of time and attention to this new work, especially to its connection with the old work.

JEFFERSON STREET TUNNEL.

In order to unite the old system of water tunnels, dependent on the Two-mile crib, with the new system now in process of construction, which will be dependent on the Four-mile crib, into a common whole the parts of

which will be fit to act and re-act on each other, a 6-foot tunnel was built on *Jefferson street*, from a shaft over the old 7-foot land tunnel at the corner of Van Buren street to a shaft sunk for the purpose just beyond the new 7-foot land tunnel at the corner of Harrison street. This tunnel is about 825 feet long, and can be closed against flow in either direction by a double-faced gate moving in a shaft of its own. The engineer in charge was Mr. W. D. Hotchkiss; the contractors were Shailer & Schniglaui.

The gate is now down and closes the new land tunnel, as yet empty, against the flow in the old tunnel. In addition to this connection between the two tunnel systems there is an older and smaller one on Desplaines street, at the terminal shaft of the new 7-foot land tunnel, which shaft is distant only about thirty feet from a 3-foot fire-shaft sitting on the old tunnel, and is connected with this fire-shaft by a tunnel tapering from five to two and one-half feet diameter, through which water for one engine at the Central pumping station has been drawn for some time.

That station is connected directly with the Desplaines street shaft by means of a 6-foot tunnel, about 500 feet long.

FOUR-MILE TUNNEL.

The *Four-mile Tunnel* (contractor, Andrew Onderdonk,) made satisfactory progress during the past year.

The 8-foot four-mile heading was begun January 12. The use of compressed air was introduced in all headings—in the two 6-foot shore-headings on March 20, in the 8-foot four-mile on June 20 and in a 6-foot tunnel-heading west from the $2\frac{1}{2}$ -mile shaft on August 1. This latter tunnel was located on the level of the shore-heading after it had been found impossible to continue work on the system begun previously on a level twenty feet lower, owing to the demoralization of the soil surrounding the $2\frac{1}{2}$ -mile shaft, aggravated, most likely, by the use of compressed air in the higher shore-headings. This air probably escaped in part at the lower level through communicating water-bearing veins.

After having constructed forty-seven feet of this upper-level tunnel under great difficulties, the contractor chose to suspend work on the $2\frac{1}{2}$ -mile point entirely.

The alignment of the main route was changed by the city so as to curve around to the north of the $2\frac{1}{2}$ -mile point at a distance of about 350 feet.

The two 6-foot headings were united into a single 8-foot heading, of which latter 282.4 feet had been finished at the end of the year. This left the face of the shore-heading at a distance of only 192.4 feet from a point due north of the centre of the $2\frac{1}{2}$ -mile shaft. Three thousand seven hundred and seventy-two and three-tenths feet of 8-foot tunnel was constructed from the 4-mile point landwards, and the distance between the two faces at the end of the year was 4,339 feet.

At the end of the preceding year the mean distance of the faces of the two 8-foot shore-headings from the Four-mile crib (tunneling not having yet begun from the latter) was 12,464 feet. Thus the year 1891 brought with it an effective progress of 8,125 feet in two headings, or a mean effective progress of 4,062.5 feet per heading.

The rate of progress stipulated in the contract for the section between the intermediate and the outer cribs is 1,800 feet per heading per annum.

Portions of the bottom arch in the two 8-foot shore-headings, constructed in especially soft and wet soil before the introduction of compressed air, were marked and recorded at once after construction as requiring repairs or reconstruction before final acceptance. Such repairs or partial reconstruction of a long, circular, brick tunnel can be done much more quickly and thoroughly when ample time is allowed for the masonry as a whole to harden and become impervious, and for the surrounding soft and wet soil to settle and dry out by contact with the tunnel arch.

The engineers in charge have been successively Messrs. Wm. A. Lydon, J. C. Des Granges and Francis F. Hopp; the latter since the middle of January, 1892.

PARK ROW BY-PASS.

In order to enable the new Fourteenth street pumping station (see below) to take water in advance of the completion of the Four-mile tunnel, and to do this without depriving the contractor of the use of his shore-shaft at Park Row, which is on the line of the tunnel connection between the station named and the Two-mile crib, a *by-pass tunnel* was constructed around *Park Row shaft*, connecting the 7-foot tunnel north of it with the 8-foot tunnel south of it, and the openings of the two tunnels into the shaft were closed by bulkheads. The by-pass was constructed as a standard 6-foot tunnel, and curves around the shaft at a distance of twenty-five feet.

The water was turned on, but the amount of percolation into the Park Row shaft was such as to interfere with its usefulness, and showed that the standard mode of construction (two rings of hand-made brick and mortar made of equal proportions of Utica Blackball cement and sand) does not meet the requirements of the rather unusual case of a tunnel under a head of fifty to sixty feet at a distance of twenty-five feet from an empty shaft with which it is connected by a continuous body of brick work of the same character.

One of the bulkheads was removed, therefore, and the by-pass is now being lined with three-sixteenth-inch steel joined to the brick work by Portland cement grout put in under pressure.

The by-pass is 196 feet long.

PECK COURT WATER-GATE.

In order that there may be no necessity for pumping dry again the *entire system* of new land tunnels, when after completion of the Four-mile

tunnel the bulkheads above mentioned must be removed for admittance of the water from the Four-mile crib, a 6-foot by 8-foot gate is being placed in *Peck Court shaft*, only 1,200 feet north of Park Row shaft, into the eye of the 7-foot tunnel connecting the two shafts.

FOURTEENTH STREET PUMPING STATION.

The *Fourteenth street Pumping Station*, with its three "Reynolds" triple expansion, 15-mill. engines, the exact counterparts of the two engines at the Central station, has been completed, and can be put into operation when water is sent down through the new land tunnel system. Portions of the finish in the interior and on the machinery, such as painting, railings, covering of steam channels and incandescent electric light system, remain to be done.

The steam end of the third engine was erected after January 1, 1892.

THIRTY-FIFTH STREET AND ASHLAND AVENUE WATER-PIPE TUNNELS.

In order to let the Stock Yards and the district surrounding it have an ample share in the benefits to be conferred by the Fourteenth street pumping station, a line of 48-inch, 36-inch and 24-inch pipe will lead from the station in a southerly and westerly direction to points near the corner of Ashland avenue and Forty-third street, where it will connect with two 16-inch pipes which are part of a line of large pipe at present supplying the Stock Yards with water from the Sixty-eighth-street pumping station. The new line crosses the Chicago river twice: first the South fork, at Thirty-fifth street, and afterward the West arm of the South fork at *Ashland avenue*.

Tunnels have been constructed in both these places to carry the 36-inch pipe under the river.

Each tunnel is about 250 feet long and has a 10-foot shaft at either end. The top and the sides of the clear cross section are parts of a circle of ten feet two inches diameter, and the bottom is a flat arch of 7-inch rise, making the greatest width ten feet two inches and the greatest height seven feet two and one-half inches. This affords, in case of a break, space enough to introduce a 30-inch pipe to replace a broken one without disturbing the rest. The grade is about forty-two feet below city datum, so as to leave a sufficient thickness of soil between the tunnel and the river.

The excavation for the Thirty-fifth-street tunnel was entirely in limestone rock; seams were few and not troublesome. The lining consists of two rings of brick. The trimming and lining of the tunnel proper was not begun until the excavation had been completed in the rough from one end to the other. A portion of the lining of the tunnel remains to be done, and the brick work of the shafts, which has suffered severely by the blasting, will be reconstructed.

The contractor is John O'Laughlin.

The excavation for the Ashland avenue tunnel was in hard clay. There was rock in the bottom, however, for some distance at the south end.

The lining consists of four rings of brick.

The shafts and tunnel are finished, and the pipe is being laid by this Department.

The contractors were Shailer & Schniglaue.

The engineers in charge of both tunnels were successively Mr. Irvine Watson and Mr. John Ericson; the latter since the middle of January, 1892.

ADDITION TO SIXTY-EIGHTH STREET PUMPING STATION.

The World's Columbian Exposition, during construction and while it is open, depends for its supply of potable water on the Sixty-eighth street pumping station.

An arrangement has therefore been made under which the city of Chicago places two *additional engines of 12 mill. each* at the station in advance of ordinary needs. The output of these engines is to be entirely at the service of the Exposition while it is open, and the Exposition Company in return advances the funds needed for the new plant, to be repaid after the close of the Exposition.

The erection of these two engines involved the construction of the necessary buildings and pipeage, and besides, for the purpose of insuring proper conditions of flow, of an additional land tunnel of five feet diameter from the shore shaft to the station, the present land tunnel being only five feet in diameter while the lake tunnel is six feet in diameter.

The two 12 mill. engines are of the well known "Gaskill" type. They are up in the rough by this time (end of February, 1892), the foundations having been completed in the early winter of 1891.

For a rational development of the station, which should be a single, compact building, sufficient to house an engine capacity of seventy-two mill. in the aggregate (the limit of the 6-foot lake tunnel), it is required that the old "Lake" building should be abandoned and that the only modern, high-duty engine it contains (a Gaskill 12 mill.) should be transferred to the enlarged Hyde Park building.

The way has been paved for this change by making the addition now being constructed on the south side of the Hyde Park building large enough to contain three 12 mill. Gaskills, and by putting in a third foundation which will receive the "Lake" Gaskill when it is ready to be moved.

The walls of the new building are up now (end of February, 1892), and so are the trusses for the iron roofs for the engine and boiler rooms. The roofing on these will consist of corrugated iron (overlaid, in the case of the engine room, by slate on a concrete bed), and will be commenced shortly; the coal room has had its wooden shed roof for some time.

The erection of the engines has been going on even during the severest weather, latterly under protection of a temporary tar and gravel roof, resting on trussed beams supported by posts.

There had to be a temporary floor, too; the permanent floor of steel beams and brick arches will not be put in for some time in order not to interfere with the work on the engines.

As soon as the boiler room is roofed in, the boilers, six in number, in batteries of two each, will be founded and set.

The new 5-foot land tunnel, about 1,100 feet long, with three shafts at the west end which will serve as wet wells for the three engines, and with one shaft at the east end close to the shore shaft of the lake tunnel, is finished, with the exception of the connections with the existing system at either end.

These connections are to be made under water and will be undertaken at the first approach of milder weather.

The contract for the furnishing of the special pipeage is about to be let. Mr. D. H. Hayes is the contractor for the building.

Lydon and Drews were the contractors for the engine foundations.

The Holly Manufacturing Company are the contractors for the machinery, and the Mt. Vernon Bridge Company for the engine house and boiler house roofs.

Mr. William Klewer is the architect in charge, and Mr. Francis F. Hopp has been succeeded as engineer in charge by Mr. Ericson.

Mr. A. O. Parker, the engineer in charge of the Sixty-eighth street pumping station, also devotes a great deal of attention to the construction of the addition.

Yours very respectfully,

BERNHARD FEIND,

First Assistant City Engineer.

REPORT
OF THE
Bureau of Water Rates

CITY OF CHICAGO



WATER OFFICE REPORT.

CHICAGO, February 23, 1892.

J. FRANK ALDRICH, Esq.,

Commissioner of Public Works.

DEAR SIR:—I herewith submit Annual Report of the Water Office for the year ending December 31, 1891:

In assuming the duties and responsibilities of this Department the first day of May last (and on which day Henry T. Carr was appointed Chief Clerk), I found, after a careful investigation, an accumulation of back taxes on books, many of them unjust and uncollectible. (For example: Application had been made to build, giving location, legal description and date of completion; the Assessor brings assessment on book from said date; the applicant in the meantime fails to build for some reason and does not report the same to this Department; the result is taxes accumulate against said premises, and this Department has no intimation that building is not erected until annual inspection is made. We have, however, inaugurated a system whereby this "mistaken" assessment will be avoided in the future.) In order to secure settlement in some cases rebates were allowed.

Total receipts for the year are \$2,331,286.20, as against \$2,149,595.79 collected the preceding year, showing an increase of \$181,690.41, due to the persistent efforts of this Department in collecting current and back taxes.

After due consideration, I have deemed it advisable to make our assessment books to collect from for two years instead of one year as heretofore, thereby saving the city a large and unnecessary expense.

A re-inspection of the whole city of Chicago is being completed, which will show amount of water rates of every building in the city, and which will increase the revenue of this Department largely the ensuing year.

The Meter Collection Department has been placed in charge of Mr. F. A. Brokoski, and by him thoroughly reorganized, and the method of book-keeping and collection of bills greatly improved upon. A large number of places avoided paying any taxes for the past two years, caused by meters being removed, and not brought on books under frontage assessments which should have been done. Also a great number of places covered by meter

have been paying less per annum than if under frontage rates. In all of these cases the difference has been added to equal frontage rates; bills have been rendered, and to a great extent settled. This system, if properly conducted in the future, will increase the revenue of the Meter Department thousands of dollars annually.

In submitting the reports of Mr. Thomas Pattison, Assessor, and Mr. Henry G. Naper, Permit Clerk, I respectfully direct your attention to their recommendations with reference to room, light and ventilation, and suggest that some alterations be made to relieve said departments, which are of necessity together. In moving into their present quarters, some years ago, the work to be performed by said departments was less than half what it is to-day, and they at that time considered the quarters inadequate. The work of both departments for the past year is the greatest in the history of the city.

In closing I beg leave to return you my sincere thanks for your kind appreciation and the many courtesies extended, as well as the good will manifested by the heads of the different bureaus under your supervision.

Very respectfully,

WILLIAM LORIMER,

Superintendent of Water Department.

Following is a recapitulated statement of the assessments and collections of the Water Office for the year 1891:

Dr.

Delinquent rates January 1, 1891.....	\$ 225,795 67
Assessment May 1, 1891.....	1,797,028 00
Assessor's increase checks.....	168,772 50
Meter rates.....	717,068 05
Meter repair.....	19,824 31
Water permits.....	39,732 60
Assessor's miscellaneous.....	22,794 37
	<hr/>
	\$2,991,015 50

Cr.

Amount collected January 1, 1891, to January 1, 1892.....	\$ 2,331,286 20
Assessor's decrease checks for municipal and public buildings.....	22,691 75
Religious, educational and charitable institutions.....	25,542 15
Removals, changes to meter control and other causes....	127,598 47
Order of City Council.....	176 50
Discounts.....	206,802 71
Balance uncollected January 1, 1892.....	276,917 72
	<hr/>
	\$2,991,015 50

Table showing the monthly collections from January 1, 1891, to January 1, 1892.

1890.	By Assessment.	Assessor's Miscellaneous.	Water Permits.	Meter.	Meter Repair.	TOTAL.
January	\$ 59,068 92	\$ 78 86	\$1,835 00	\$64,589 44	\$1,211 36	\$126,713 58
February	37,586 11	16 25	1,813 10	54,062 81	873 66	94,381 93
March	23,561 69	89 24	3,217 15	54,153 64	1,038 78	82,000 50
April	37,377 54	155 00	2,787 70	63,716 96	1,445 80	95,488 00
May	348,862 88	1,924 58	4,018 80	56,329 95	2,087 78	418,243 89
June	241,174 54	5,846 16	4,635 80	52,563 71	1,812 26	306,032 47
July	86,377 45	3,355 55	4,536 60	66,435 40	1,922 22	162,627 22
August	43,904 26	3,784 01	4,074 90	55,207 51	1,891 23	108,861 91
September	33,844 17	2,431 61	3,732 90	60,180 97	1,699 74	101,389 39
October	47,081 97	2,076 28	4,988 40	62,764 88	2,709 19	119,570 72
November	349,575 86	2,936 02	2,305 75	55,759 59	1,344 59	411,921 81
December	234,006 58	155 86	1,786 50	71,323 19	1,787 70	309,059 78
TOTALS	\$1,581,866 87	\$22,794 37	\$39,732 60	\$717,068 05	\$19,824 31	\$2,381,286 20

The following table shows the work done by the leak and waste, and shut-off forces :

SHUT-OFF AND LEAK AND WASTE FORCES.

MONTHS.	Bills Delivered.	Shut-off Notices Delivered.	Shut-off for Unpaid Taxes.	Notices of Leak and Waste.	Shut-off for Leak and Waste.	Complaints Investigated.	Hose Reported.	Water Turned On.
January	9,087	8,233	99	88	42	99	.....	91
February	7,462	7,232	292	48	45	87	.....	82
March	980	5,892	268	23	34	114	.....	182
April	6,790	1,500	367	35	52	118	.....	228
May	14,862	84	86	32	69	75	.....	172
June	8,753	3,460	23	56	48	186	486	88
July	9,786	8,320	186	83	45	104	1,230	110
August	6,453	7,830	304	46	28	226	1,696	128
September	1,089	1,838	295	60	44	139	698	156
October	8,952	856	358	77	32	203	104	123
November	5,920	320	88	45	59	146	.....	84
December	9,989	2,880	45	40	76	198	.....	76
TOTAL	90,073	47,995	2,411	633	574	1,690	4,214	1,470

The following is a tabulated statement of the work of the Inspector's force for the year 1891:

BUILDINGS EXAMINED.

1891.	One-Story.	Two-Story.	Three-Story.	Four-Story.	Five-Story.	Six-Story.	Seven-Story.	Eight-Story.	Nine-Story.	Special Examination Made.
January.....	1,936	2,102	936	437	93	24	10	1	....	486
February.....	1,543	2,164	338	291	47	.....	17	....	....	310
March.....	1,329	1,829	267	236	69	18	.....	7	....	479
April.....	1,160	1,712	600	327	16	63	29	....	....	783
May.....	1,331	2,174	713	390	104	91	.....	3	....	1,841
June.....	1,546	3,172	880	359	187	86	2	19	....	1,097
July.....	2,947	3,998	1,739	671	81	10	.....	....	1	493
August.....	2,152	4,068	2,108	563	13	2	41	1	....	333
September.....	3,675	4,711	2,513	588	277	139	63	8	....	360
October.....	2,160	3,163	865	519	213	.....	.....	....	....	388
November.....	1,823	2,788	617	293	11	1	.....	6	....	934
December.....	1,478	2,649	1,198	582	3	.....	.....	1	..	691
TOTAL.....	23,080	34,470	12,774	5,256	1,114	434	162	46	1	8,193

WATER ASSESSOR'S REPORT.

CHICAGO, January 1, 1892.

W. LORIMER,

Superintendent.

DEAR SIR:—I have the honor to submit to you my annual report of work done in the Water Assessor's sub-department of the Water Office during the municipal fiscal year ending December 31, 1891, as follows:

1. Showing the amount of assessments for water on division books in districts one to five, inclusive, as by last annual report on January 1, 1891, with the increases and decreases up to and including April 30, 1891, being the close of the water revenue year.
2. The amount of miscellaneous assessments, for street sprinkling, etc., made during the same period as the foregoing, showing the amount collected and the balance uncollected on the thirtieth day of April, 1891.
3. Showing the amount assessed and on books in districts one to five, inclusive, on the first day of May, 1891, for the *year* ending April 30, 1892, with the increases and decreases made from May 1, 1891, to December 31, 1891, being the end of the municipal fiscal year.
4. The amount of miscellaneous assessments made during the last-named period, showing the amount collected and the balance remaining uncollected on December 31, 1891.
5. The amount assessed and on books in the Sixth District, as per last annual report on January 1, 1891, together with the increases and decreases to April 30, 1891, as reported by Jos. Hardacre, Superintendent of Sixth District.
6. The amount assessed and on books in the Sixth District on May 1, 1891, for the *year* ending April 30, 1892, with the increases and decreases to December 31, 1891, being the close of the municipal fiscal year, as reported by Jos. Hardacre, aforesaid.
7. The amount on book of Seventh District on the first day of January, 1891, as per last annual report, together with the increases and decreases to April 30, 1891, being the close of the water revenue year, as reported by W. C. Lawson, Superintendent of said district.

8. The amount on books of Seventh District on the first day of May, 1891, for the year ending April 30, 1892, with the increases and decreases from May 1, 1891, to December 31, 1891, being the close of the municipal fiscal year, as reported by W. C. Lawson, Superintendent of said district.

9. A detailed statement of streets and number of water-service pipes, put in by contract during the year 1891, showing the aggregate cost of contract; also the amount of Assessor's cost as covered into the water fund.

10. Is a detailed statement of streets, ordered by the City Council to be improved, with estimated number and cost of water-service pipes, as returned by me to the Superintendent of Special Assessments, during the year ending December 31, 1891.

FIRST TO FIFTH DISTRICTS, INCLUSIVE.

Amount of water assessments on division book, as per last report, on January 1, 1891.....

\$1,376,029 50

Amount of increase checks from January 1, 1891, to April 30, 1891, numbers 2,074 to 2,564.	Amount of decrease checks from January 1, 1891, to April 30, 1891, numbers 1,325 to 1,613.
January, 1891.....\$ 1,949 07	January, 1891.....\$ 6,881 50
February, 1891.... 2,289 12	February, 1891.... 3,960 49
March, 1891..... 1,985 01	March, 1891..... 4,432 46
April, 1891 1,874 47	April, 1891 1,989 13
Total\$ 8,047 67	Total.....\$17,263 78

Decrease\$17,263 78

Increase 8,047 67

Net decrease 9,216 11

Total amount assessed to April 30, 1891.....\$1,366,813 89

MISCELLANEOUS ASSESSMENTS.

January 1, 1891, to April 30, 1891.

Uncollected January 1, 1891.....\$ 385 94

INCREASE.

January, 1891.....\$ 508 86
 February, 1891..... 24 25
 March, 1891..... 54 24
 April, 1891..... 188 00

Total increase from January 1, 1891, to April 30, 1891.....

775 35

Total\$1,161 29

WATER OFFICE REPORT.

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DECREASE.

January, 1891	
February, 1891	
March, 1891	
April, 1891	
Total decrease, January 1 to April 30, 1891	
Amount collected, January 1 to April 30, 1891	\$ 284 35
Uncollected, April 30, 1891	876 94
Total	<u>\$1,161 29</u>

Amount of assessment for water, from May 1, 1891, to April 30, 1892,
exclusive of meters. \$1,489,944 16

Increase from May 1, 1891, to December 31, 1891. Checks numbers 2 to 2,388.	Decrease from May 1, 1891, to December 31, 1891. Checks numbers 1 to 1,339.
May, 1891. \$ 27,581 41	May, 1891.....\$ 23,588 18
June, 1891..... 11,908 19	June, 1891..... 10,575 97
July, 1891.... 19,775 80	July, 1891..... 38,496 58
August, 1891.... 12,448 69	August, 1891.... 19,659 83
September, 1891. 10,812 29	September, 1891. 10,522 36
October, 1891.... 15,728 55	October, 1891.... 7,098 19
November, 1891.. 6,219 82	November, 1891.. 8,094 91
December, 1891.. 8,780 31	December, 1891.. 18,914 73
Total.....\$108,204 56	Total.....\$126,945 70

Decrease.....	\$126,945 70
Increase	108,204 56
Total decrease.	<u>18,741 14</u>

Total assessment from May 1, 1891, to December 31, 1891.. \$1,471,908 02

MISCELLANEOUS ASSESSMENTS.

May 1, 1891, to December 31, 1891.

Uncollected May 1, 1891.....\$ 867 94

INCREASE.

May, 1891.....	\$ 2,105 08
June, 1891....	8,622 83
July, 1891.....	3,289 98
August, 1891.....	3,766 92
September, 1891.....	2,506 60
October, 1891.....	2,877 11
November, 1891.....	188 52
December, 1891.....	118 61
Total increase from May 1, 1891, to December 31, 1891.....	<u>22,870 55</u>
Total.....	<u>\$23,747 49</u>

DEPARTMENT OF PUBLIC WORKS.

DECREASE.

May, 1891	\$ 76 67	
June, 1891	278 50	
July, 1891	0 00	
August, 1891	26 66	
September, 1891	19 99	
October, 1891	27 50	
November, 1891	0 00	
December, 1891	50 00	
Total decrease, May 1 to December 31, 1891		\$ 474 82
Total collections, May 1 to December 31, 1891		22,510 02
Balance uncollected, December 31, 1891		763 15
Total		<u>\$23,747 49</u>

SIXTH DISTRICT.

As reported by JOS. HARDACRE, Superintendent.

Amount of water assessments on books January 1, 1891, as per last report... \$135,633 85

INCREASE.	DECREASE.
January, 1891.....\$ 775 71	January, 1891.....\$ 297 92
February, 1891..... 206 50	February, 1891 207 95
March, 1891..... 59 96	March, 1891..... 251 28
April, 1891... 814 15	April, 1891..... 484 58
Total .....\$1,856 32	Total .....\$1,241 73

Increase. \$1,856 32

Decrease 1,241 73

Total increase 614 59

Total amount assessed from May 1, 1890, to April 30, 1891..... \$136,248 44

Amount on books from May 1, 1891, to April 30, 1892..... \$174,816 23

INCREASE.	DECREASE.
May, 1891.....\$ 3,339 23	May, 1891.....\$2,319 29
June, 1891	June, 1891..... 2,416 83
July, 1891 2,489 21	July, 1891..... 746 10
August, 1891..... 4,046 79	August, 1891..... 337 40
September, 1891.. 4,884 53	September, 1891... 593 34
October, 1891..... 3,055 67	October, 1891..... 446 53
November, 1891... 1,293 12	November, 1891 ... 985 06
December, 1891... 1,403 18	December, 1891... 4,095 92
Total .....\$22,840 90	Total.....\$11,939 97

Increase.....\$22,840 90

Decrease 11,939 97

Total increase..... 10,900 93

Total on books December 31, 1891 \$185,717 16

SEVENTH DISTRICT.

As reported by W. C. LAWSON, Superintendent.

Amount of water assessments on books, as per last report, Jan. 1, 1891.... \$183,228 30

INCREASE.	DECREASE.
January, 1891.....\$ 674 90	January, 1891.....\$ 465 56
February, 1891..... 708 91	February, 1891..... 1,420 00
March, 1891..... 324 85	March, 1891..... 2,005 85
April, 1891..... 1,692 04	April, 1891..... 1,489 39
Total.....\$3,400 70	Total.....\$5,380 80

Decrease.....\$5,380 80
 Increase..... 3,400 70
 Total decrease..... 1,980 10

Total amount assessed from May 1, 1890, to April 30, 1891..... \$181,248 20

Amount on book from May 1, 1891, to April 30, 1892..... \$147,277 07

INCREASE.	DECREASE.
May, 1891.....\$ 2,823 07	May, 1891.....\$ 1,805 49
June, 1891..... 5,936 39	June, 1891..... 1,889 19
July, 1891..... 2,299 99	July, 1891..... 616 09
August, 1891..... 1,729 90	August, 1891..... 651 25
September, 1891.. 4,925 41	September, 1891.. 1,686 73
October, 1891..... 2,144 75	October, 1891..... 1,757 79
November, 1891... 2,699 07	November, 1891.. 1,198 88
December, 1891... 1,863 77	December, 1891... 4,823 92
Total.....\$24,422 35	Total..... \$18,429 34

Increase.....\$22,422 35
 Decrease..... 13,429 34
 Total increase..... 10,993 01

Total assessment from May 1, 1891, to December 31, 1891..... \$158,270 08

SUMMARY, EXCLUSIVE OF METERS.

First to Fifth Districts, assessed from May 1 to December 31, 1891.....\$1,471,203 02
 Sixth District, assessed from May 1 to December 31, 1891..... 185,717 16
 Seventh District, assessed from May 1 to December 31, 1891..... 168,270 08
 Total.....\$1,815,190 26

Amount rebated by ordinance of November 21, 1884, and July 30, 1885, during the year ending December 31, 1891, in districts 1 to 7 inclusive :

Religious, charitable and educational institutions..... \$25,542 15
 Municipal and public schools..... 22,691 75
 By special order of Council, September 29, 1890.....\$64 50
 By special order of Council, February 2, 1891..... 85 50
 By special order of Council, February 24, 1891..... 15 00
 By special order of Council, June 8, 1891..... 61 50
 Total..... 176 50
 Total..... \$48,410 40

The above rebates are included in the general decreases embraced in the foregoing report.

DEPARTMENT OF PUBLIC WORKS.

PIPES PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1891, SHOWING THE NUMBER OF PIPES,
TOTAL AMOUNT OF CONTRACT, AND THE ASSESSOR'S COST ON EACH STREET.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
Addison avenue.....	Clark.....	Lake Michigan.....	83	\$1,854 32	\$156 00
Adams.....	Kedzie avenue.....	Central Park avenue.....	160	2,619 20	240 00
Aldine.....	Evanston avenue.....	Lake Michigan.....	56	869 08	84 00
Ashland avenue.....	Fifty-fifth.....	Fifty-ninth.....	155	2,780 70	282 50
Albany avenue.....	Ogden avenue.....	Douglas Park boulevard.....	41	615 82	61 50
Addison avenue.....	Ashland avenue.....	Clark.....	140	2,392 60	210 00
Armitage avenue.....	California avenue.....	Kedzie avenue.....	54	798 26	81 00
Armour avenue.....	Egan avenue.....	Root.....	10	150 00	15 00
Asylum place.....	Elston avenue.....	Leavitt.....	26	328 12	39 00
Bonney avenue.....	Ogden avenue.....	Twenty-sixth.....	141	2,096 67	211 50
Bonfield.....	Archer avenue.....	Hickory.....	7	126 00	0 00
Baltimore avenue.....	Commercial avenue.....	Eighty-third.....	43	628 70	68 00
Bond avenue.....	Seventy-ninth.....	Eightieth.....	60	886 90	90 00
Belmont avenue.....	Western avenue.....	North branch of Chicago river.....	82	504 80	48 00
Colorado avenue.....	Central Park avenue.....	Boulevard.....	124	3,396 68	185 80
Chicago avenue.....	Leavitt.....	Kedzie avenue.....	85	676 90	52 50
Commercial avenue.....	So. Chicago avenue.....	Ninety-sixth.....	78	1,648 92	117 00
Cornelia.....	Ninety-sixth.....	Hundredth.....	50	927 00	75 00
Colorado avenue.....	Halsted.....	Lake Michigan.....	87	1,324 14	180 50
Carroll avenue.....	Jackson.....	Central Park avenue.....	14	294 14	21 00
Congress.....	Halsted.....	May.....	74	1,203 62	111 00
Coulter.....	Rockwell.....	Albany avenue.....	22	366 08	33 00
Chestnut avenue.....	Robey.....	Hoyne avenue.....	53	795 00	79 50
Central Park avenue.....	Wallace.....	Halsted.....	119	1,792 14	178 50
Central Park avenue.....	Twenty-second.....	Twenty-sixth.....	98	1,981 98	189 50
South Chicago avenue.....	Madison.....	Harrison.....	22	608 90	0 00
Columbia place.....	Commercial avenue.....	Ninety-second.....	24	373 48	86 00
Calumet avenue.....	Lake.....	Kinzie.....	25	897 75	97 50
Dudley.....	Thirty-seventh.....	Thirty-eighth.....	12	291 86	18 00
Drexel avenue.....	Hervey.....	Asylum place.....	185	2,995 15	277 50
Drake avenue.....	Fifty-fifth.....	Fifty-ninth.....	27	408 50	40 50
Dunning.....	Central Park boulevard.....	Ohio.....	15	279 45	23 50
Dickey.....	Racine avenue.....	Southport avenue.....	88	1,378 64	183 00
Emerald avenue.....	Sixty-ninth.....	Seventy-second.....	63	979 02	94 50
	Egan avenue.....	Forty-seventh.....			

Eastwood avenue	Sheffield avenue	Halsted	51	801 72	78 50
Egan avenue	Wentworth avenue	Halsted	106	1,777 62	159 00
Elston avenue	Diversey avenue	Snow	131	1,784 75	181 50
Ellis avenue	Sixtieth	Sixty-third	133	2,054 10	184 50
Edbrooke place	Western avenue	Powell avenue	8	49 88	4 50
Elston avenue	Diversey avenue	Belmont avenue	206	3,475 22	309 00
Eighteenth place	Brown	May	5	90 00	0 00
Eighty-eighth	Superior avenue	Mackinaw avenue	10	189 20	15 00
Ellis avenue	Fifty-fifth	Fifty-sixth	22	363 44	33 00
Ellis avenue	Egan avenue	Forty-third	69	957 03	103 50
Forty-fourth	Cottage Grove avenue	St. Lawrence avenue	7	111 79	10 50
Forty-seventh	Halsted	Paulina	95	1,454 45	143 50
Fullerton avenue	Milwaukee avenue	Elston avenue	230	4,517 20	345 00
Fifty-fifth	Lake avenue	Cottage Grove avenue	97	1,578 19	145 50
Forty-fourth	Drexel boulevard	Ellis avenue	4	76 00	6 00
Fullerton avenue	Milwaukee avenue	Kedzie avenue	96	2,040 00	144 00
Fifty-fourth	Drexel boulevard	Cottage Grove avenue	8	117 28	12 00
Fifty-ninth	State	South Park avenue	27	419 85	40 50
Forty-seventh	Cottage Grove avenue	Woodlawn avenue	71	1,018 86	106 50
Fifty-sixth	Wright	Wallace	34	508 30	51 00
Forty-sixth	State	Drexel boulevard	105	1,600 20	157 50
Forty-seventh	Archer avenue	Western avenue		No Main.	
Fisk	Twenty-ninth	Twenty-second	8	144 00	4 00
Fifty-first	Drexel boulevard	East End avenue	111	1,651 68	166 50
Frankfort	Robey	Hoyle avenue	19	322 43	28 50
Forty-fifth	Wentworth avenue	Stewart avenue	11	220 00	12 76
Frank	Diversey avenue	Surf	20	355 40	30 00
Forty-fifth	State	Grand boulevard	24	379 44	36 00
Forrest avenue	Fullerton avenue	Humboldt boulevard	14	221 90	21 00
Fairview	Fullerton avenue	Humboldt boulevard	27	416 61	40 50
Forty-second	Drexel boulevard	Oakenwald avenue	32	451 84	47 00
Forty-third	State	Halsted	65	1,045 20	97 50
Forestville avenue	Forty-eighth	Fifty-first	119	1,710 08	178 50
Forty-fifth	Wallace	Stewart avenue	6	81 18	9 00
Grand avenue	Chicago avenue	Crawford avenue	403	6,355 03	604 50
Greenwood avenue	Sixtieth	Sixty-third	113	1,859 98	169 50
Greenwich	Robey	Leavitt	14	231 43	21 00
Grand avenue	Western avenue	Chicago avenue	103	2,012 46	153 00
Hamlin avenue	Kinzie	Chicago avenue	75	1,841 75	112 50
Hoyle avenue	Chicago avenue	Division	23	841 55	94 50
Harvard	Campbell avenue	California avenue	66	1,086 86	99 00
Hamlin avenue	Lake	Kinzie	28	405 16	42 00

PIPES PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1891, SHOWING THE NUMBER OF PIPES,
TOTAL AMOUNT OF CONTRACT AND THE ASSESSOR'S COST ON EACH STREET—CONTINUED.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
Halsted.	Evanston avenue.	Sulzer.	122	\$1,941 02	\$183 00
Honore.	Sixty-ninth.	Seventy second.	95	1,396 50	137 80
Hoffman avenue.	Fullerton avenue.	Humboldt boulevard.	85	420 00	52 50
Hoyne avenue.	Asylum place.	Fullerton avenue.		No Main.	
Haynes court.	Archer avenue.	Lyman.	8	57 00	0 00
Honore.	Sixty seventh.	Sixty-ninth.	38	530 64	49 50
Jackson avenue.	Fifty-fourth.	Fifty-ninth.	219	8,147 03	328 50
Jane.	Western avenue.	California avenue.	63	958 23	94 50
Johnson avenue.	Archer avenue.	Fifty-first.		No Main.	
Jay.	Centre.	Garfield avenue.	7	118 72	10 50
Jay.	Webster avenue.	Fullerton avenue.	17	279 52	26 50
Indiana avenue.	Egan avenue.	Forty-third.	74	1,417 00	111 00
Ione place.	Grand boulevard.	Vincennes avenue.	26	404 56	39 00
Indiana avenue.	Forty-third.	Forty-fifth.	58	964 54	87 00
Kinzie.	Jefferson.	May.	22	362 34	33 00
Kedzie avenue.	Central Park boulevard.	Augusta.	147	2,444 61	230 50
Kedzie avenue.	Twelfth.	Twenty-second.	281	4,377 45	346 50
Kimbark.	Forty-eighth.	Forty-ninth.	6	89 22	9 00
Kenmore avenue.	Lawrence avenue.	Ainslee.	12	181 20	18 00
Lawrence avenue.	Sheffield avenue.	Ashland avenue.	7	101 64	10 50
Langley avenue.	Forty-fourth.	Forty-fifth.	4	53 36	6 00
Lake.	Crawford avenue.	West Forty-eighth.	286	6,035 44	444 00
Lincoln.	Forty-ninth.	Fifty-first.		Cancelled.	
Lill avenue.	Halsted.	Lincoln avenue.	7	119 43	10 50
Langley avenue.	Fortieth.	Forty-second.	11	167 75	16 50
Laughton.	Hoyne avenue.	California avenue.	147	2,179 86	230 50
Leavitt.	Armitage avenue.	Asylum place.	21	359 31	81 50
Lewis.	Wrightwood avenue.	Diversey avenue.	16	219 04	24 00
Linden.	Fullerton avenue.	Humboldt boulevard.	33	465 30	49 50
Laurel avenue.	Fullerton avenue.	Humboldt boulevard.	41	591 63	61 50
Leavitt.	Asylum place.	Fullerton avenue.	44	665 72	66 00
Madison.	Homan avenue.	Crawford avenue.	61	1,167 54	91 50
Melrose.	Evanston avenue.	Eastern terminus.	8	106 40	12 00
Milwaukee avenue.	Fullerton avenue.	Logan square.	112	1,719 20	168 00
Madison.	West Fortieth.	West Forty-eighth.	380	8,217 00	570 00

Michigan avenue.....	Fifty-fifth.....	Sixty-third.....	332	6,719 68	498 00
Morgan	Fifty-fourth.....	Garfield boulevard.....	25	343 25	87 50
Monroe avenue.....	Fifty-fifth.....	Fifty-eighth.....	30	432 90	45 00
Myrie.....	Fullerton avenue.....	Humboldt boulevard.....	39	553 80	68 50
Millard avenue.....	Twenty-sixth.....	Twenty-eighth.....	86	1,302 90	129 00
Madison avenue.....	Sixtieth.....	Sixty-sixth.....	157	2,394 25	235 50
Monroe.....	Kedzie avenue.....	Central Park avenue.....	149	2,869 10	223 50
Maud avenue.....	Racine avenue.....	Sheffield avenue.....	17	254 66	25 50
North avenue.....	Kedzie avenue.....	Tinkham avenue.....	139	2,669 01	193 50
Nineteenth.....	Strand.....	Manistee avenue.....	Cancelled.	Cancelled.	Cancelled.
Norwood avenue.....	Kedzie avenue.....	Homan avenue.....	33	508 86	49 50
Ontario.....	North Clark.....	St. Clair.....	9	225 00	0 00
Hundred and fifteenth.....	I. C. R. R.....	State.....	120	1,938 00	180 00
Owasco.....	Rockwell.....	California avenue.....	23	300 84	84 50
Oakley avenue.....	Indiana.....	Chicago avenue.....	22	529 43	88 00
Otto.....	Paulina.....	Wood.....	13	305 76	19 50
Ontario avenue.....	Seventy-ninth.....	Eightieth.....	19	330 41	28 50
Park End avenue.....	Sixtieth.....	Sixty-first.....	27	380 16	40 50
Portland avenue.....	Thirty-first.....	Thirty-third.....	37	512 08	55 50
Park avenue.....	Kedzie avenue.....	Homan avenue.....	61	950 99	91 50
Parnell avenue.....	Twenty-ninth.....	Thirty-first.....	2	24 92	8 00
Quinn.....	Archer avenue.....	Thirty-first.....	49	846 23	73 50
Reta.....	Addison.....	Cornelia.....	13	167 18	19 50
Superior.....	Leavitt.....	Rockwell.....	107	4,814 90	160 50
South Park avenue.....	Fifty-first.....	Fifty-fifth.....	88	1,016 75	124 50
Sixty-second.....	Greenwood avenue.....	Cottage Grove avenue.....	16	237 48	24 00
Sacramento avenue.....	Van Buren.....	Twelfth street.....	75	1,158 00	113 50
Superior.....	Rockwell.....	Washtenaw avenue.....	13	353 50	19 50
Spaulding avenue.....	Ogden avenue.....	C., B. & Q. R. R.....	68	884 50	87 00
Stewart avenue.....	Normal parkway.....	Seventy-first.....	47	723 83	70 50
Sawyer avenue.....	Douglas Park boulevard.....	Twenty second.....	116	1,735 86	174 00
Sixty-seventh.....	Wright.....	Honore.....	6	106 96	9 00
Sheridan avenue.....	Twelfth.....	Fillmore.....	33	490 05	49 50
Sixty-second.....	Halsted.....	Wallace.....	34	490 08	51 00
Seventeenth.....	Lincoln.....	Robey.....	21	343 77	81 50
Seipp avenue.....	Seventy-first.....	Seventy-third.....	80	1,087 20	130 00
Sixty-first.....	Wallace.....	Halsted.....	41	594 09	61 50
Strand.....	Harbor avenue.....	Eighty-ninth.....	Cancelled.	Cancelled.	Cancelled.
Sixty-sixth.....	Stewart avenue.....	Sherman avenue.....	31	464 38	46 50
Sherman avenue.....	Sixty-third.....	Sixty-fifth.....	35	498 05	52 50
Sixty-fourth.....	Wallace.....	Union.....	10	125 40	15 00
String.....	Canalport avenue.....	Twenty-first.....	6	108 00	7 92

DEPARTMENT OF PUBLIC WORKS.

PIPES PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1891, SHOWING THE NUMBER OF PIPES,
TOTAL AMOUNT OF CONTRACT AND THE ASSESSOR'S COST ON EACH STREET—CONTINUED.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
St. Lawrence avenue.....	Forty-fifth.....	Fifty-first.....	209	\$3,076 81	\$918 50
Swift place.....	Wentworth avenue.....	Stewart avenue.....	6	92 40	9 00
Thirty-third.....	R. I. R. R.....	Halsted.....	59	924 53	88 50
Thirtieth.....	Halsted.....	Stewart avenue.....	6	89 64	9 00
Troy.....	Colorado avenue.....	Jackson.....	.....	Cancelled.	.....
Thirty-eighth.....	Stewart avenue.....	Laurel.....	57	872 67	85 50
Turner avenue.....	Ogden avenue.....	Twenty-first.....	44	641 52	66 00
Twelfth.....	Garfield boulevard.....	Crawford avenue.....	98	1,833 96	139 50
Troy.....	Twelfth.....	Douglas boulevard.....	68	1,019 32	102 00
Twenty-sixth.....	Lawndale avenue.....	Hamlin avenue.....	6	87 84	9 00
Twenty-third.....	Lawndale avenue.....	Hamlin avenue.....	.....	Cancelled.	.....
Twenty-second.....	Lawndale avenue.....	Hamlin avenue.....	29	600 25	48 50
Turner avenue.....	Hamlin avenue.....	Ogden avenue.....	41	706 43	61 50
Twenty-eighth.....	Douglas Park boulevard.....	Ogden avenue.....	.....	No Main.	.....
Twenty-seventh.....	Stewart avenue.....	Halsted.....	5	105 50	7 50
Thomas.....	Portland avenue.....	Stewart avenue.....	7	117 04	10 50
Windsor avenue.....	Western avenue.....	Seymour.....	4	88 92	6 00
Wabash avenue.....	Sheffield avenue.....	Halsted.....	63	890 34	94 50
Wallace.....	Fifty-fifth.....	Sixty-third.....	239	4,813 46	358 50
Wood.....	Egan avenue.....	Forty-seventh.....	137	1,798 24	190 50
Wright.....	Armitage avenue.....	Asylum place.....	15	281 00	27 50
Western avenue.....	Sixty-ninth.....	Seventy-second.....	85	1,364 80	137 50
Wharton avenue.....	Ogden avenue.....	Illinois and Michigan canal.....	.....	Cancelled.	.....
Western avenue.....	Sixtieth.....	Sixteenth.....	21	318 78	81 50
Wabansia avenue.....	Western avenue.....	Illinois and Michigan canal.....	124	1,925 72	186 00
Winter street or Union avenue.....	Forty-seventh.....	Milwaukee avenue.....	.....	Cancelled.	.....
Wabansia avenue.....	Robey.....	Fifty-fifth.....	179	2,552 54	268 50
Washenaw avenue.....	Twelfth.....	Milwaukee avenue.....	10	178 10	15 00
Wright.....	Sixty-fifth.....	Ogden avenue.....	30	518 10	45 00
Wellington avenue.....	Sheffield avenue.....	Sixty-ninth.....	45	585 00	67 50
Wolftram.....	Halsted.....	Southport avenue.....	24	373 68	36 00
Walnut.....	Homan avenue.....	Racine avenue.....	47	643 90	70 50
		Central Park avenue.....	54	800 82	81 00
		Total.....	11,246	\$191,596 02	\$16,808 28

WATER OFFICE REPORT.

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List of streets ordered for improvement with estimated number and cost of water service pipes returned to Superintendent of Special Assessments from January 1 to December 31, 1891.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
*Addison avenue...	Ashland avenue	Clark	189	\$ 4,536 00
Albany avenue....	Twelfth	Douglas Park blvd	39	819 00
*Armitage avenue..	California avenue	Kedzie avenue.....	63	1,323 00
Aberdeen.....	North Clark	Evanston avenue.....	186	2,856 00
Alice place.....	Powell avenue	Western avenue.....	6	144 00
Ashland avenue....	Austin avenue	Milwaukee avenue....	6	144 00
Armour avenue....	Twenty-fifth	Twenty-sixth	0	All in.
Armour avenue....	Twenty-second	Twenty-fifth	184	2,814 00
Armour avenue....	Gordon	Forty-seventh	188	2,898 00
Armour avenue....	Forty-seventh	Fifty-fifth	355	7,455 00
Armitage avenue..	Kedzie avenue	Columbia avenue.....	459	10,098 00
*Armour avenue....	Egan avenue	Root	118	2,378 00
*Belmont avenue...	Western avenue	North br. Chicago riv'r	78	1,638 00
Bremen	Robey	Western avenue	81	1,620 00
Berlin	Hoyne avenue	Western avenue	71	1,420 00
Bonney avenue....	Ogden avenue	Douglas Park blvd	224	4,704 00
Bishop	Fifty-fifth	Fifty-ninth	156	3,276 00
Byron	California avenue	Humboldt boulevard..	28	588 00
Bonney avenue....	Colorado	Harrison	13	288 00
Brown	Wright	C. & N.-W. R'y.	7	Not assessed.
Buckingham place..	Evanston avenue	Western avenue	53	1,113 00
Burling	Wrightwood avenue	Dewey court	11	Not assessed.
Bosworth avenue..	Roscoe	Grace	120	2,520 00
Belknap	Morgan	Western avenue	2	Not assessed.
Buffalo avenue....	Eighty-third	Ninety-second	258	6,192 00
*Central Park avenue	Madison	Harrison	95	2,185 00
Church place.....	Archer avenue	Fuller	12	252 00
California avenue..	Belmont avenue	Humboldt boulevard..	223	4,683 00
California avenue..	Milwaukee avenue	Humboldt boulevard..	60	1,260 00
Calumet avenue....	Egan avenue	Forty-seventh	370	7,770 00
*South Chicago ave	Commercial avenue	Ninety-second	37	999 00
Carroll avenue....	W. Fortieth	West Forty-sixth	186	3,906 00
Congress	Albany avenue	Kedzie avenue	47	987 00
Churchill	Robey	Leavitt	35	735 00
Coblentz	Robey	Leavitt	29	609 00
Champlain avenue..	Forty-seventh	Fiftieth	131	2,751 00
Cottage Grove ave..	Fifty first	Fifty-ninth	162	4,212 00
*Calumet avenue...	Thirty-seventh	Thirty-eighth	27	567 00
North Centre avenue	Kinzie	Austin avenue	24	504 00
Calumet avenue....	Forty-seventh	Fifty-first	184	3,864 00
Columbia place....	Lake	Kinzie	41	820 00
Crawford avenue...	Twenty-second	Thirty-third	442	11,984 00
Cornelia	Ashland avenue	Wood	6	Not assessed.
Central Park avenue	Harrison	Douglas Park blvd	149	3,129 00
Columbia	Milwaukee avenue	Leavitt	32	672 00
Congress	Kedzie avenue	Homan avenue	46	966 00
Cheltenham place..	Beach	Bond avenue	4	Not assessed.
Clarence avenue...	Nellie avenue	Grace	35	735 00
Central Park avenue	Ohio	Lake	77	1,617 00
Calumet avenue....	Fifty-first	Fifty-fifth	187	3,927 00
Cicero court.....	Van Buren	Congress	0	All in.

*Contracts let and work done.

STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
Columbia	Milwaukee avenue	Leavitt	32	\$ 672 00
Douglas avenue	Archer avenue	Western avenue	62	1,802 00
Dearborn	Egan avenue	Root	112	2,352 00
Douglas avenue	Western avenue	California avenue	119	2,499 00
Diller	Indiana	Ohio	3	Not assessed.
Drexel avenue	Sixtieth	Sixty-third	116	2,900 00
Dearborn	Forty-third	Forty-seventh	144	3,024 00
Dearborn	Forty-seventh	Fifty-fifth	354	7,434 00
Dauphin avenue	Eighty-seventh	Ninety-third	124	2,480 00
Duncan avenue	Eighty third	Baltimore avenue	16	336 00
*Ellis avenue	Fifty-fifth	Fifty sixth	25	600 00
*Ellis avenue	Egan avenue	Forty-third	99	2,079 00
Elizabeth	Madison	Randolph	0	All in.
Erie avenue	Eighty-seventh	Ninety first	148	3,108 00
Evans avenue	Forty-seventh	Forty-ninth	65	1,365 00
Eighty-eighth	South Park avenue	I. C. R. R.	211	4,431 00
Eighty-ninth	South Park avenue	I. C. R. R.	209	4,389 00
Eighty-seventh place	South Park avenue	Dauphin avenue	219	4,599 00
Eighty-eighth place	South Park avenue	Dauphin avenue	211	4,431 00
Eighty-ninth place	South Park avenue	Dauphin avenue	200	4,200 00
*Frank	Diversey avenue	Surf	28	462 00
*Forty-fifth	State	Grand boulevard	27	567 00
*Forrest avenue	Fullerton avenue	Humboldt boulevard	35	735 00
*Fairview	Fullerton avenue	Humboldt boulevard	36	756 00
Fifty-seventh	Wentworth avenue	Halsted	103	2,163 00
*Forty-second	Drexel avenue	Oakenwald avenue	33	693 00
Fairfield avenue	Lake	Kinzie	0	All in.
Fulton	Homan avenue	Central Park avenue	78	2,106 00
Fulton	Hamlin avenue	Columbia place	7	Not assessed.
Frankfort	Hoyne avenue	Leavitt	20	420 00
Fifty-first	Wallace	Ashland avenue	365	7,685 00
*Forty-third	State	Halsted	76	1,596 00
Fifth avenue	Douglas avenue	Thirty-seventh	19	399 00
*Forrestville avenue	Forty-eighth	Fifty-first	120	2,520 00
Forty-seventh	State	Cottage Grove avenue	177	3,717 00
Fairfield avenue	North avenue	Hirsch	62	1,802 00
Fourteenth	Wabash avenue	Indiana avenue	0	All in.
Forty-second place	Grand avenue	Vincennes avenue	7	147 00
Flournoy	Sacramento avenue	Francisco	25	550 00
Farrell	Archer avenue	Thirty-first	65	1,365 00
Flournoy	California avenue	Francisco	0	All in.
Fifty-ninth	Halsted	Centre avenue	144	3,024 00
*Forty-fifth	Wallace	Stewart avenue	40	840 00
Fiftieth	Cottage Grove avenue	Drexel boulevard	10	210 00
Ferdinand	Ashland avenue	Paulina	12	252 00
Fisk	Sixteenth	Eighteenth	7	154 00
Forty-fourth	Cottage Grove avenue	Drexel boulevard	10	210 00
Fifty-ninth	State	South Park avenue	0	All in.
Forty-sixth	Drexel boulevard	Woodlawn avenue	40	840 00
Forty-fourth	State	St. Lawrence avenue	56	1,176 00
Fifty-third	Lake Michigan	Cottage Grove avenue	215	5,160 00
Forty-eighth	Cottage Grove avenue	Drexel boulevard	17	357 00
Forty-seventh	Cottage Grove avenue	Drexel boulevard	17	357 00
Forty-second place	Vincennes avenue	St. Lawrence avenue	22	462 00
Forty-first	State	Grand boulevard	25	525 00
Forty-second	Vincennes avenue	St. Lawrence avenue	0	All in.

* Contracts let and work done.

STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
Gehrke avenue	North Clark	Sheffield avenue	39	\$ 819 00
Gross avenue	Loomis	Forty-seventh	104	2,184 00
Gloy place	Elston avenue	Lister	0	All in.
Greenwood	Western avenue	Station	18	234 00
Graceland avenue	North Clark	C. & N.-W.-R'y	67	1,809 00
Genesee avenue	Colorado avenue	Harrison	23	506 00
Grace avenue	Sixty-third	Sixty-fifth	58	1,160 00
*Hoffman avenue	Fullerton avenue	Humboldt boulevard	37	777 00
Hoynes avenue	Asylum place	Fullerton avenue	36	756 00
*Haynes court	Archer avenue	Lyman	8	152 00
Harrison	Fifth avenue	South b1. Chicago river	0	All in.
*Honore	Sixty-seventh	Sixty-ninth	55	1,375 00
Hickory	Main	Cologne	23	483 00
Huron	Albany avenue	Kedzie avenue	0	All in.
Humboldt boulevard	North avenue	Logan square	330	6,600 00
Hoynes avenue	Belmont avenue	Clybourn avenue	112	2,352 00
Harding avenue	Kinzie	Chicago avenue	130	2,394 00
Humboldt boulevard	Logan Square	Western avenue	272	5,440 00
Harvard	Seventy-third	Seventy-fifth	91	1,911 00
Hazel avenue	Buena avenue	Montrose boulevard	60	1,260 00
Indiana avenue	Forty-third	Forty-fifth	91	2,457 00
Ingleside avenue	Fifty-fifth	Fifty-ninth	200	4,290 00
Ingleside avenue	Fifty-first	Fifty-fifth	172	3,956 00
Indiana avenue	Twelfth	Pumping works	16	336 00
Indiana avenue	Forty-fifth	Fifty-first	270	7,290 00
Joseph	Archer avenue	Hickory	16	336 00
Jane	Hoynes avenue	Leavitt	20	440 00
Jackson	Clinton	Halsted	9	Not assessed.
Jackson	Halsted	Central Park avenue	5	Not assessed.
Jansen avenue	Roscoe	Grace	147	3,087 00
Kedzie avenue	Augusta	North avenue	122	2,928 00
*Kenmore avenue	Lawrence avenue	Ainsley	66	1,386 00
Kuehl place	Elston avenue	Lister	0	All in.
Kenwood avenue	Vincennes avenue	Grand boulevard	28	588 00
Kemper place	Orchard	Larrabee	3	Not assessed.
*Laughton	Hoynes avenue	California avenue	158	3,818 00
*Leavitt	Armitage avenue	Asylum place	32	672 00
*Lewis	Wrightwood avenue	Diversey avenue	20	420 00
*Linden	Fullerton avenue	Humboldt boulevard	46	966 00
*Laurel avenue	Fullerton avenue	Humboldt boulevard	46	966 00
Leavitt	Asylum place	Fullerton avenue	56	1,176 00
Lister	Robey	Asylum place	82	1,722 00
Lill	Western avenue	Station	46	966 00
Loomis	Fifty-fifth	Fifty-ninth	156	3,276 00
Lafin	Fifty-fifth	Fifty-ninth	159	3,339 00
Lowe avenue	Twenty-sixth	Egan avenue	260	5,460 00
Lawndale avenue	C. B. & Q. R. R.	125 ft. S. of Twenty-second	16	336 00
Larrabee	Fullerton avenue	Frederick	10	200 00
Lexington	California avenue	Francisco	22	462 00
Lincoln avenue	Addison avenue	Sulzer	368	7,728 00
Logan square	North, South	East and West sides	38	760 00
Larrabee	Frederick	Deming court	3	Not assessed.
Lexington avenue	Sixty-third	Sixty-fifth	59	1,239 00
Langley avenue	Eighty-seventh	Ninety-first	32	672 00
Lincoln	Twelfth	Thirteenth	0	All in.
*Myrtle	Fullerton avenue	Humboldt boulevard	44	924 00

*Contracts let and work done.

STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
*Millard avenue....	Twenty-sixth	Twenty-eighth	93	\$ 1,032 00
*Madison avenue....	Sixtieth	Sixty-sixth	179	4,117 00
Monroe.....	Kedzie avenue	Central Park avenue..	155	3,565 00
Montana	Western avenue.....	Station	12	252 00
Millard avenue....	Twelfth	Ogden avenue.....	253	5,313 00
Melrose	Evanston avenue	Halsted	60	882 00
Maud avenue.....	Racine avenue	Sheffield avenue.....	26	546 00
Myrtle	Ashland avenue.....	Taylor.....	8	Not assessed.
Milwaukee avenue..	Logan square	City limits	1,802	39,644 00
Michigan	State	Cass	4	Not assessed.
Matthew	Ogden avenue	Wood	8	176 00
Morgan	Sixteenth	Eighteenth	0	All in.
Maryland avenue..	Sixty-third	Sixty-fifth	85	1,785 00
Monroe.....	Canal	Halsted	4	Not assessed.
Mackinaw avenue..	Eighty-ninth	Ninety-second.....	86	2,150 00
Ninetieth	South Park avenue ..	Ill. C. R. R.....	197	4,187 00
Ninety-third	Cottage Grove avenue	Ill. C. R. R.....	8	Not assessed.
Ninety-second	Cottage Grove avenue	Ill. C. R. R.....	2	Not assessed.
Ninety-first	Cottage Grove avenue	Ill. C. R. R.....	8	176 00
Ninetieth place ..	South Park avenue ..	Dauphin.....	195	4,095 00
Newport avenue..	Sheffield avenue	Halsted	80	1,680 00
North place	Armitage avenue.....	N. W. terminus.....	7	147 00
Oakley avenue	Fullerton avenue.....	Station	21	441 00
Ohio	Clark	St. Clair.....	0	All in.
Osgood.....	Clybourn avenue.....	Fullerton avenue.....	37	777 00
Oglesby avenue ..	Sixty-eighth.....	Seventy-first	132	2,772 00
Hundred and fourth	Hoxie avenue	Florence avenue.....	0	All in.
*Parnell avenue....	Twenty-ninth	Thirty-first.....	9	198 00
Pearson	North Franklin	Market	0	All in.
Park avenue	West Fortieth.....	West Forty-sixth	223	6,021 00
Paulina.....	Wellington	Belmont avenue.....	0	All in.
Prairie avenue.....	Egan avenue	Forty-second.....	143	3,861 00
Polk	Rockwell.....	California avenue.....	65	1,365 00
Palmer place	North, South	East and West sides ..	98	1,960 00
Prairie avenue.....	Forty-second	Fifty-first.....	426	11,502 00
Park row	Michigan avenue	Ill. C. R. R.....	0	All in.
Paxton avenue	Sixty-seventh	Seventy-first	197	4,137 00
Paxton avenue	Seventy-fifth	Seventy-ninth	171	3,591 00
Prairie avenue.....	Fifty-first	Fifty-fifth.....	178	4,806 00
*Quinn	Archer avenue	Thirty-first.....	88	1,660 00
Quarry	C. & A. R. R.....	Cologne	21	Not assessed.
Rhine	Leavitt	Western avenue.....	43	903 00
*Reta	Addison avenue.....	Cornelia	43	903 00
Robey	Twelfth	Thirteenth	2	Not assessed.
Robey	Madison	Harrison.....	0	All in.
Roscoe	Robey	Southport avenue.....	129	2,709 00
Rokeby	Addison avenue	Grace	59	1,857 00
Robey	Archer avenue	Egan avenue	135	2,835 00
Rosebud	Bloomington avenue..	Western avenue.....	20	420 00
Robertson	I. C. R. W.....	Grace	31	589 00
*St. Lawrence ave..	Forty-fifth	Fifty-first.....	252	5,292 00
*Swift place	Wentworth avenue...	Stewart avenue.....	15	315 00
Seventy-fourth ..	Jeffrey avenue	Bond avenue.....	268	5,628 00
Seipp avenue	Seventy-third	Seventy-fifth.....	69	1,449 00
Stephens	Jackson	Van Buren.....	4	84 00
Sobieski	Asylum place.....	Fullerton avenue.....	33	693 00

* Contracts let and work done.

WATER OFFICE REPORT.

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STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
St. Hedwig	Asylum place.	Pulaski	23	\$ 462 00
Sixty-third	Wallace	Halsted	60	1,260 00
Station	Western avenue.	Leavitt	65	1,285 00
Superior	Eighty-ninth.	Ninety-second.	49	1,029 00
Seventy-third	State	Wallace	121	2,562 00
Stewart avenue.	Seventy-seventh.	Seventy-ninth.	55	1,155 00
Seminary avenue	Center	Maud avenue	26	548 00
Seventy-fourth	State	Stewart avenue.	60	1,260 00
Seventy-first	Cottage Grove avenue ..	South Park avenue ..	53	1,113 00
Seventy-first	Indiana avenue	South Park avenue ..	54	1,184 00
Superior avenue.	Eighty-seventh	Eighty-ninth	46	966 00
School	North Clark	Halsted	11	231 00
Seventy-first	Stony Island avenue ..	Oglesby avenue ..	246	5,166 00
Sawyer avenue.	Ogden avenue	Twenty-second	0	All in.
Starr	Robertson avenue.	South terminus.	62	1,240 00
Southport avenue.	Belmont avenue	Graceland avenue ..	282	6,486 00
South Park avenue.	Fifty-fifth	Sixtieth	110	2,810 00
Sixty-sixth	Wright	Stewart avenue.	20	420 00
Sixty-fifth cour	Wright	Stewart avenue.	14	308 00
Seventy-fourth	Yates avenue	Bond avenue	62	1,302 00
State	Sixty-fourth	Sixty-eighth	128	3,956 00
Stony Island avenue.	Fifty-seventh	Sixty-seventh	194	4,074 00
Sixty-second	Stony Island avenue ..	Ill. C. R. R.	27	567 00
St. Lawrence avenue ..	Eighty-seventh place ..	Ninety-first	0	All in.
Sixty-fourth	Woodlawn avenue ..	Stony Island avenue ..	45	945 00
*Thomas	Western avenue	Seymour avenue.	7	154 00
Twenty-ninth	Halsted	Main	67	1,407 00
Twelfth	Michigan avenue	Indiana avenue.	0	All in.
Thirty-second	State	C. R. I. & P. R'y.	0	All in.
Thirti-seventh	Ashland	Western avenue	122	2,684 00
Thirty-sixth	Halsted	Laurel avenue	36	756 00
Tucker	Thirty-fifth	Egan avenue	36	756 00
Troy	Twelfth	Douglas boulevard.	0	All in.
Union place	Twenty-second	Union	10	210 00
Upton	Western avenue	Milwaukee avenue.	7	147 00
Van Buren	Homan avenue	Central Park avenue.	69	1,449 00
Vincennes avenue	Eighty-seventh	Ninety-first	0	All in.
Western avenue.	Fullerton avenue.	Belmont avenue	256	5,876 00
*Wellington avenue.	Sheffield avenue.	Southport avenue.	42	966 00
*Wolfram	Halsted	Racine avenue	59	1,239 00
Washtenaw avenue.	Lake	Kinzie	21	441 00
Webster avenue	Dominick	North branch Chicago river ..	13	252 00
Warren avenue	Leavitt	Oakley avenue	0	All in.
Wright	Stewart avenue	Canal	5	Not assessed.
Weed	Clybourn avenue.	Eastern terminus.	0	All in.
Washington avenue.	Ninety-first	Ninety-fifth	103	2,163 00
Washtenaw avenue.	Division	North avenue.	0	All in.
Washtenaw avenue.	Sixteenth	Twenty-second	52	1,092 00
Webster avenue	Seventy-third	Seventy-fifth	95	1,995 00
*Walnut	Homan avenue	Central Park avenue.	57	1,197 00
Wright	Root	Forty-third	10	220 00
Wabash avenue	Twenty-second	Fifty-fifth	672	18,144 00
Wharton avenue.	Fifty-first	Fifty-fifth	165	8,960 00
Wendell avenue	Eighty-second	Eighty-third	33	693 00
Woodlawn avenue.	Sixty-fourth	Sixty-fifth	40	840 00
Zion place	Throop	Loomis	0	All in.
TOTAL .....	.....	.....	23,980	\$525,883 00

* Contracts let and work done.

In conclusion, I can only say that I find no let-up in the work of this sub-department.

We put in during the year 1891, by contract, on 187 streets, 11,246 water service pipes, at an aggregate cost of \$191,596.02. The Assessor's cost on the same, as passed to the credit of the water fund, amounted to \$16,803.28.

We also made estimates and returns to the special assessment department on 275 streets for 23,980 water service pipes at an estimated cost of \$525,383.00, during the same time.

We are still working at very great inconvenience on account of deficiency of room and light; we actually need double the space we have—especially for the draughtsmen. If any arrangement could be made to give us more room it would be highly appreciated.

Respectfully submitted,

THOMAS PATTISON,

Water Assessor.

PERMIT CLERK'S REPORT.

CHICAGO, January 30, 1892.

WILLIAM LORIMER, Esq.,

Superintendent.

DEAR SIR :—I take pleasure in presenting herewith my annual report of all work accomplished in my sub-department of the Water Office during the fiscal year ending December 31, 1891.

The number of ferrules inserted for water service pipes during the past year exceeded the number put in during the previous year by 1,569. This is a large increase, as the previous year was an unusually active one, and taxed the ability of the force employed in this sub-department to the utmost to perform all that was required. Owing to a rumor that the City Council would increase the Plumber's License from one dollar to one hundred dollars per annum, the master plumbers came in earlier than usual for their licenses, hoping thereby to secure them before the Council could take action.

As each license is accompanied by a bond requiring the signature of the plumber and two sureties, the rush during the first two months of the year was unprecedented and kept the office force exceedingly busy.

On the 18th of April the Commissioner of Public Works let contracts for laying water service pipes in sixty-five streets about to be improved, and on the 30th day of April contracts were let for eighty more streets, making a total of one hundred and forty-five contracts let within one month. Additional lettings were made during the summer and fall, which brought the total number of streets for which contracts were let up to one hundred seventy-eight. The accompanying tables show that in said one hundred and seventy-eight streets 11,246 ferrules and water service pipes were put in. They also show that, in addition thereto, 12,135 ferrules were inserted for sundry applicants at the office, mostly for new buildings and for buildings in new pipe districts; thus showing a grand total for the year of 23,381 ferrules inserted, a record for one year unparalleled in the history of the city.

As the city contracts were let on short notice and divided among a dozen different contractors, some of whom employed two and three gangs of men at the same time, it was found impossible with the small force at my command to supply them and the numerous callers at the office, without working with a part of my force almost every evening from April to November, preparing permits, schedules, and giving measurements from the plats

where pipes were to be laid in accordance with the assessments. This double duty would not have been so irksome to those so employed had the temperature of our office not exceeded the normal both by day and night from June to October. Our office being located just above the engine and boilers in the basement, is subjected to more heat from below, and to heat from the almost constantly burning electric lights, than any other office in the building.

Opening the windows gave very little relief, as most of the time hot air from the furnaces below was blown in, and there being no ventilators near the ceiling the hot air could not escape. I consider it my duty to allude to this subject, as the clerk connected with this sub-department who died in October is said to have stated on his death-bed that the cause of his illness was attributable to the excessive heat of the office; and the further fact that two ladies and one gentleman were overcome by the heat and had to be carried out of the room. Besides the above are the numerous complaints from the clerks, and from the public who are compelled to do business with us.

We hope and trust that something will be done to give us relief. In my opinion the best remedy would be to have openings made near the top of the now existing foul air flues, which could be done at slight expense.

The following table shows the number of screw ferrules inserted monthly during 1891:

MONTHS.	$\frac{3}{4}$ -inch Screw Ferrules Inserted.	$\frac{1}{2}$ -inch Screw Ferrules Inserted.	1-inch Screw Ferrules Inserted.	Grand Total of Screw Ferrules Inserted.
January.....	299	98	10	407
February.....	279	299	4	582
March.....	346	234	14	594
April.....	521	479	8	1,008
May.....	714	369	27	1,110
June.....	756	360	19	1,135
July.....	822	428	30	1,280
August.....	636	434	21	1,091
September.....	562	478	21	1,061
October.....	696	641	32	1,369
November.....	461	329	30	820
December.....	347	214	16	577
TOTAL.....	6,489	4,363	232	11,084

The following table shows the number of driven ferrules inserted monthly during 1891:

MONTHS.	$\frac{1}{2}$ -inch Driven Ferrules Inserted.	$\frac{3}{4}$ -inch Driven Ferrules Inserted.	1-inch Driven Ferrules Inserted.	Grand Total of Driven Ferrules Inserted.
January.....	2	1	....	3
February.....	2	3	....	5
March.....	....	143	....	143
April.....	60	232	....	292
May.....	7	2,236	....	2,243
June.....	3	2,695	....	2,698
July.....	....	2,330	....	2,330
August.....	....	1,676	....	1,676
September.....	....	1,340	....	1,340
October.....	....	1,239	....	1,239
November.....	1	279	....	280
December.....	4	38	6	48
TOTAL.....	79	12,262	6	12,347

SUMMARY OF FERRULES INSERTED.

	$\frac{1}{2}$ -inch.	$\frac{3}{4}$ -inch.	1-inch.	Grand Total.
Screw ferrules.....	6,439	4,363	232	11,034
Driven ferrules.....	79	12,262	6	12,347
GRAND TOTAL.....	6,518	16,625	238	23,381

The ferrules inserted, as per preceding tables, were divided among the different sections of the city, as follows :

		$\frac{3}{4}$ -inch.	$\frac{1}{2}$ -inch.	1-inch.	Total Screw Ferrules.	Total Driven Ferrules.
In old part of city	{ Screw ..	1,841	1,824	146	3,811	.....
	{ Driven..	77	6,843	6	.....	6,426
In Lake View	{ Screw ..	557	950	24	1,531	.....
	{ Driven..	.....	927	.....	.....	927
In Hyde Park	{ Screw ..	1,536	875	40	2,451	.....
	{ Driven..	2	3,205	.....	.....	3,207
In Town of Lake	{ Screw ..	1,809	621	14	2,444	.....
	{ Driven..	.....	1,721	.....	.....	1,721
In Calumet	{ Screw ..	158	12	2	172	.....
	{ Driven..	.....	62	.....	.....	62
In Jefferson	{ Screw ..	489	71	6	566	.....
	{ Driven..	.....	4	.....	.....	4
In Cicero	{ Screw ..	49	10	.....	59	.....
	{ Driven..	.....	.....	.....	.....	.....
TOTAL		6,518	16,625	288	11,034	12,347

Under contracts let by the Commissioner of Public Works for water service pipes in streets about to be improved, the following number of ferrules were inserted :

	Three-quarter-inch Ferrules.
Inserted in old part of city	5,922
Inserted in Lake View	795
Inserted in Hyde Park	3,191
Inserted in Town of Lake	1,338
Grand Total	11,246

For pipe foremen the following ferrules were inserted as re-taps in replaced street mains :

	$\frac{3}{4}$ -inch.	$\frac{1}{2}$ -inch.	1-inch.	Grand Totals.
Inserted in old part of city	82	79	12	173
Inserted in Lake View	1	23	.....	23
Inserted in Hyde Park	13	27	1	41
Inserted in Town of Lake	2	34	.....	36
TOTAL	96	162	13	278

Applications were made at the office for the insertion of ferrules for water service pipes to new buildings, and to buildings in new pipe districts in all parts of the city, as follows :

	Number of Ferrules.
Inserted in old part of city.....	4,815
Inserted in Lake View.	1,663
Inserted in Hyde Park.	2,467
Inserted in Town of Lake.	2,827
Inserted in Calumet.	234
Inserted in Cicero.	59
Inserted in Jefferson.	570
Grand Total.	12,135

As a number of the ferrules inserted, as per preceding tables, were for parties who previously had an inadequate supply and had their pipes enlarged, the following table shows the actual increase to the pipes inserted in previous years:

	Number Inserted.	Actual Increase.
Total ferrules inserted in old part of city.	10,237	
Less 173 re-taps and 566 for enlarged service pipes. . .	739	
	<hr/>	9,498
Total ferrules inserted in Lake View.	2,458	
Less 23 re-taps and 74 for enlarged service pipes . .	97	
	<hr/>	2,361
Total ferrules inserted in Hyde Park.	5,658	
Less 41 re-taps and 30 for enlarged service pipes. . .	71	
	<hr/>	5,587
Total ferrules inserted in Town of Lake.	4,165	
Less 36 re-taps and 41 for enlarged service pipes. . .	77	
	<hr/>	4,088
Total ferrules inserted in Calumet	234	
Less for re-taps and enlarged service pipes		
	<hr/>	234
Total ferrules inserted in Cicero.	59	
Less for re-taps and enlarged service pipes.		
	<hr/>	59
Total ferrules inserted in Jefferson.	570	
Less for re-taps and enlarged service pipes		
	<hr/>	570
Total actual increase for the whole city.		22,397

Tabular statement showing by comparison the number of ferrules inserted each year for the last eleven years, and the total number in use on January 1, 1892.

	Year.	Number Ferrules in old part of city.	Number of Ferrules in Suburbs.	Total number of Ferrules in use.
Inserted previous to.....	1880	63,510	.....	.....
	1880	4,489	.....	67,949
	1881	5,678	.....	73,627
	1882	5,213	.....	78,840
	1883	6,656	.....	85,496
	1884	6,687	.....	92,183
	1885	6,555	.....	98,688
	1886	8,088	.....	106,771
	1887	8,807	.....	115,578
	1888	10,089	.....	125,667
	1889	7,617	.....	137,189
* Lake View, six months.....	1889	.....	889	
* Hyde Park, six months.....	1889	.....	1,730	
* Town of Lake, six months.....	1889	.....	1,286	
	1890	10,127	.....	.....
* Lake View.....	1890	.....	3,440	159,001
* Hyde Park.....	1890	.....	3,883	
* Town of Lake.....	1890	.....	3,951	
* Calumet.....	1890	.....	152	
* Cicero.....	1890	.....	289	
* Jefferson.....	1890	.....	20	
	1891	10,237	.....	.....
* Lake View.....	1891	.....	2,458	182,882
* Hyde Park.....	1891	.....	5,658	
* Town of Lake.....	1891	.....	4,165	
* Calumet.....	1891	.....	234	
* Cicero.....	1891	.....	59	
* Jefferson.....	1891	.....	570	

* The total number of ferrules inserted in the suburbs previous to annexation is unknown.

WATER OFFICE REPORT.

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PERMITS ISSUED DURING 1891.

For tapping water mains for pipes to inside of curb lines for future use.....	11,246
For tapping water mains for enlarged service pipes to houses previously supplied.....	711
For tapping water mains for service pipes to houses not previously supplied.....	7,612
For connections to service pipes in—inside of curb lines.....	1,237
For 4-inch cast iron pipes to be used as service pipes.	44
For 6-inch cast iron pipes to be used as service pipes.....	11
For T connections for 1½ and 2-inch service pipes.....	89
For special or miscellaneous permits.....	882
Grand total.....	21,782

MISCELLANEOUS.

Number of inspections made by the plumbing inspectors.....	19,888
Number of plumbers' bonds filed.....	476
Number of plumbers' licenses issued.....	476
Number of leak reports received.....	742

RECEIPTS—EARNINGS.

Amount received for inserting ferrules (of all sizes) as per cash book.....	\$38,965 60
Amount received for permits giving permission to connect with pipes in at curb lines on sundry streets in annexed suburbs, on which only a part of the assessment has been collected.....	291 00
Amount to be credited to Water Fund for 11,246 ¾-inch ferrules inserted for street improvement water service pipes and deducted from contractors' bills at \$3.50 each	39,361 00
Amount received for plumbers' licenses at \$1.00 each.....	476 00
For re-taps inserted in replaced street mains, and for miscellaneous use, as follows:	
98 ½-inch ferrules @ \$3.00.....	294 00
162 ¾-inch ferrules @ \$3.50.....	567 00
18 1-inch ferrules @ \$5.40... ..	70 20
Total receipts—earnings.....	\$80,024 80

EXPENDITURES.

Cost of new parts of screw tapping machines.....	\$ 251 38
Cost of Permit Clerk's books, blanks, etc.	148 25
Cost of car fare for Plumbing Inspectors and Tappers.....	438 57
Cost of miscellaneous material for use of Tappers.....	108 11
Cost of advertising for bids to lay water service pipes.....	22 50
Maintenance of three horses at water works stables.....	1,295 16
Sundry repairs at water works machine shops.....	311 68
Plumbing bills paid for lengthening out service pipes to inside of new curb lines on sundry streets.....	92 00
Decrease in stock	18 27

Cost of hardened steel sockets, as follows:

6 ¾-inch @ \$2.75.....	16 50
18 ¾-inch @ \$2.75.....	49 50

Cost of drills used up on screw tapping machines, as follows:

30 $\frac{3}{8}$ -inch @ \$4.05.....	\$ 121 50
22 $\frac{3}{4}$ -inch @ \$4.95.....	108 90
6 1-inch @ \$5.85.....	85 10

Cost of drills used up on smooth-bore tapping machines, as follows:

22 $\frac{3}{8}$ -inch, 95 $\frac{3}{4}$ -inch, and 2 1-inch; total 119 @ \$1.60 each	190 40
Salaries paid Permit Clerk and Assistants.....	7,887 54
Salaries paid Plumbing Inspectors.....	15,980 52
Salaries paid Tappers.....	14,557 08
Paid for expressage.....	8,169 99
Amount paid for hired day labor.....	2,628 00
Money refunded for permits cancelled.....	5 00
Cost of oil for tapping machines	3 50
Cost of one gauge for fitting ferrules.....	10 75

Cost of 6,489 $\frac{3}{8}$ -inch screw ferrules, inserted—

1,091 @ 51c.....	\$ 556 41
5,348 @ 37 $\frac{1}{2}$ c.....	1,985 48
	<u>2,541 89</u>

Cost of 4,868 $\frac{3}{4}$ -inch screw ferrules, inserted—

1,885 @ 60c.....	\$1,181 00
2,478 @ 44 $\frac{1}{4}$ c.....	1,096 51
	<u>2,227 51</u>

Cost of 232 1-inch screw ferrules, inserted, @ 60c.....

139 20

Cost of 79 $\frac{3}{8}$ -inch driven ferrules, inserted, @ 45c.....

35 55

Cost of 12,262 $\frac{3}{4}$ -inch driven ferrules, inserted—

2,890 @ 60c.....	\$1,734 00
9,872 @ 45 $\frac{1}{2}$ c.....	4,264 26
	<u>5,998 26</u>

Cost of 6 1-inch driven ferrules, inserted, @ \$1.30.....

7 80

Cost of 83 $\frac{3}{8}$ -inch screw ferrules, inserted as re-taps, @ 37 $\frac{1}{2}$ c.....

12 25

Cost of 28 $\frac{3}{4}$ -inch screw ferrules, inserted as re-taps, @ 44 $\frac{1}{4}$ c

12 39

Cost of 7 1-inch screw ferrules, inserted as re-taps, @ 60c.....

4 20

Cost of 65 $\frac{3}{8}$ -inch driven ferrules, inserted as re-taps, @ 45c

29 25

Cost of 184 $\frac{3}{4}$ -inch driven ferrules, inserted as re-taps, @ 45 $\frac{1}{2}$ c.....

60 97

Cost of 6 1-inch driven ferrules, inserted as re-taps, @ \$1.30.....

7 80

Cost of 450 tail pieces for sundry ferrules.....

69 00

Total expenditures.....\$63,086 27

Total receipts—earnings.....80,024 80

Total expenditures.....63,086 27

Net gain.....\$16,988 53

WATER OFFICE REPORT.

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INVENTORY OF PROPERTY.—WATER PERMIT DEPARTMENT, DECEMBER 31, 1891.

	$\frac{1}{2}$ -inch Screw Ferrules.	$\frac{3}{4}$ -inch Screw Ferrules.	$\frac{1}{2}$ -inch Screw Ferrules.	1-inch Screw Ferrules.
On hand December 31, 1890.	15	1,091	1,885	51
Purchased during 1891.....		8,700	3,500	330
TOTAL.....	15	9,791	5,385	381
Used during 1891.....		6,439	4,363	232
On hand December 31, 1891.....	15	3,417	1,122	158
Less damaged ferrules.....	13	99	66	.....
Perfect ferrules on hand December 31, 1891.....	2	3,318	1,120	158

	$\frac{1}{2}$ -inch Driven Ferrules.	$\frac{3}{4}$ -inch Driven Ferrules.	$\frac{1}{2}$ -inch Driven Ferrules.	1-inch Driven Ferrules.
On hand December 31, 1890.	15	2,031	2,890	463
Purchased during 1891.....		1,100	9,700	.....
TOTAL.....	15	3,131	12,590	463
Used during 1891.....		79	12,262	6
On hand December 31, 1891.....	17	3,000	342	457
Less damaged ferrules.....	2	.....	33	.....
Perfect ferrules on hand December 31, 1891.....	15	3,000	309	457

SUMMARY OF FERRULES ON HAND.

	$\frac{1}{2}$ -inch Ferrules.	$\frac{3}{4}$ -inch Ferrules.	$\frac{1}{2}$ -inch Ferrules.	1-inch Ferrules.	Grand Total.
Screw ferrules on hand December 31, 1891....	2	3,318	1,120	158	4,598
Driven ferrules on hand December 31, 1891....	15	3,000	309	457	3,781
TOTAL.....	17	6,318	1,429	615	8,379

	$\frac{1}{4}$ -inch Screw Drills.	$\frac{3}{8}$ -inch Screw Drills.	$\frac{1}{2}$ -inch Screw Drills.	1-inch Screw Drills.	$\frac{1}{4}$ -inch Smooth Bore Drills.	$\frac{3}{8}$ -inch Smooth Bore Drills.	$\frac{1}{2}$ -inch Smooth Bore Drills.	1-inch Smooth Bore Drills.
On hand December 31, 1890.....	8	55	69	80	1	89	46	4
Purchased during 1891.....	.....	84	48	12	.....	42	78	12
TOTAL.....	8	139	117	42	1	81	124	16
Used during 1891.....	.....	60	46	20	.....	31	102	2
On hand December 31, 1891.....	8	79	71	22	1	50	22	14

	Extra Couplings for $\frac{1}{4}$ -inch Screw Ferrules.	Extra Couplings for $\frac{3}{8}$ -inch Screw Ferrules.	Extra Couplings for $\frac{1}{2}$ -inch Driven Ferrules.	Extra Couplings for $\frac{1}{2}$ -inch Driven Ferrules.
On hand December 31, 1890.....	517	508	45	274
Purchased during 1891.....	150	150	.....	150
TOTAL.....	667	658	45	424
Used during 1891.....	328	570	15	28
On hand December 31, 1891.....	339	88	30	401

	$\frac{1}{4}$ -inch Short Shank Plugs.	$\frac{1}{4}$ -inch Long Shank Plugs.	$\frac{3}{8}$ -inch Short Shank Plugs.	$\frac{3}{8}$ -inch Long Shank Plugs.	$\frac{1}{2}$ -inch Short Shank Plugs.	$\frac{1}{2}$ -inch Long Shank Plugs.	1-inch Short Shank Plugs.	1-inch Long Shank Plugs.
On hand December 31, 1890.....	43	37	20	79	24	78	23	16
Used during 1891.....	.....	3	1	8	2	6	1	3
On hand December 31, 1891..	43	34	19	71	22	72	22	13

We had on hand December 31, 1890, machines for inserting driven and screw ferrules, as follows :

Number of machines for driving ferrules.....	9
Number of Mueller screw tapping machines.....	19
Total.....	28

The following table shows the number of tools and extra fittings belonging to machines for driving ferrules, and to Mueller screw tapping machines, on hand December 31, 1891 :

$\frac{5}{8}$ -inch steel sockets.....	20
$\frac{3}{4}$ -inch steel sockets.....	14
1-inch steel sockets.....	1
$\frac{5}{8}$ -inch brass sockets.....	8
$\frac{3}{4}$ -inch brass sockets.....	10
1-inch brass sockets.....	18
3-inch saddles.....	2
4-inch saddles.....	17
6-inch saddles.....	20
8-inch saddles.....	14
10-inch saddles.....	16
16-inch saddles.....	12
18-inch saddles.....	1
24-inch saddles.....	5
Chains, long.....	13
Chains, short.....	20
Monkey wrenches.....	17
Ratchets.....	7
Spring and pins back of ratchets.....	10
Ratchet dogs.....	2
Ratchet wheels.....	4
Hammers.....	9
Feed yokes.....	6
Chain yokes.....	3
Relief valves.....	1
Oilers.....	16
Stuffing nuts.....	6
Files.....	24
Brass cups.....	2
Tool boxes.....	12
Extra heavy brass cocks for cylinders.....	5
Iron cylinders.....	0
Padlocks, iron.....	4
Padlocks, brass.....	9
Handled feed nuts.....	7
Testing rods.....	5
Rubber washers for valves.....	45
Rubber gaskets, $7\frac{1}{2}$ -inch.....	6
Rubber for saddles.....	40

The cost of ferrules on hand, as per preceding inventory, is as follows :

2	½-inch screw ferrules, at 45c.....	\$ 90
3,818	⅝-inch screw ferrules, at 87½c.....	1,281 80
1,120	¾-inch screw ferrules, at 44¼c.....	495 60
158	1-inch screw ferrules, at 60c.....	94 80
15	½-inch driving ferrules, at 45c.....	6 75
3,000	⅝-inch driving ferrules, at 45c.....	1,350 00
309	¾-inch driving ferrules, at 45½c.....	140 59
457	1-inch driving ferrules, at \$1.80.....	594 10
Total value of ferrules on hand.....		<u>\$3,914 54</u>

The cost of screw and smooth bore drills on hand, as per preceding inventory, is as follows :

3	½-inch screw drills, at \$4 05.....	\$ 12 15
79	⅝-inch screw drills, at 4.05.....	319 95
71	¾-inch screw drills, at 4.95.....	351 45
22	1-inch screw drills, at 5.85.....	128 70
87	smooth-bore drills of all sizes, at \$1.60.....	139 20
Total value of drills on hand.....		<u>\$ 951 45</u>

Before closing this report permit me to acknowledge my deep obligations to yourself, and to the chiefs of other bureaus, for the many courtesies shown me in the discharge of my official duties.

Respectfully submitted,

HENRY G. NAPER,

Permit Clerk Water Department.

REPORT
OF THE
Bureau of Maps

CITY OF CHICAGO

MAP DEPARTMENT.

CHICAGO, January, 1892.

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR :—I herewith respectfully submit statement of the work performed in the Map Department during the year 1891, as follows :

	Number of Plats.
Lamp Post Ordinances	1,002
Lamp Post Orders	668
Lamp Post Assessments	334
Street Improvement Assessments	645
Streets and Alley Opening Assessments	78
Street and Alley Opening Ordinances	616
Street Engineer's Estimates	872
Surveys	236
Sidewalk Assessments	1,057
Law Department	639
Miscellaneous Purposes	186
Total	6,313

Five hundred and forty-four new subdivisions of real estate within the city limits and recorded documents pertaining to same have been entered upon the several sets of Atlases in charge of this office, to-wit :

- One set for Map Department.
- One set for House Numbers.
- One set for Special Assessment Department.
- One set for Street Department.

By election held April 7th, 1891, the village of Fernwood was annexed to the city, being the eleventh extension of the city limits and embracing the following described tract of land, to-wit : The west $\frac{1}{2}$ and the west 50 feet of E. $\frac{1}{2}$ of Sec. 9, the E. $\frac{1}{2}$ of the S. E. $\frac{1}{4}$ and the S. E. $\frac{1}{4}$ of the N. E. $\frac{1}{4}$ of Sec. 8, the S. W. $\frac{1}{4}$ and the south 666 feet of the N. W. $\frac{1}{4}$ and the West 50 feet of the S. E. $\frac{1}{4}$, and the west 50 feet of the south 666 feet of the N. E. $\frac{1}{4}$ of Sec. 4 ; all of Town 37, North Range 14 east of the 3rd P. M.

The city of Chicago now covers an area of $181\frac{7}{10}$ square miles, or 116,320 acres.

Very respectfully,

R. A. MANSTEIN,

Superintendent of Map Department.

REPORT
OF THE
Bureau of Sewers

CITY OF CHICAGO

BUREAU OF SEWERS.

CHICAGO, January 1, 1892.

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR:—I herewith submit the Annual Report of the Bureau of Sewers for the year ending December 31, 1891, showing in tabulated form the work done and cost of same, as follows:

For building new sewers and catch-basins.....	\$1,582,990 44
For cleaning sewers and catch-basins.....	123,620 44
For repairing sewers and catch-basins.....	29,753 04
For adjusting to grade man-hole and catch-basin covers on streets being im- proved....	66,153 71
For house drains.....	65,281 17
For appropriated salaries	28,417 05
Total.....	<u>\$1,846,165 85</u>

**NEW SEWERS AND CATCH-BASINS BUILT DURING THE YEAR 1891 AND
THE COST OF SAME.**

LENGTH.	SIZE.	AVERAGE CUT.	AVERAGE COST PER FOOT.	AMOUNT.
10,730	9 inches.	8.5	\$ 1 00	\$ 10,730 00
206,675	12 "	7.9	1 18	248,876 50
149,932	15 "	8.9	1 42	212,908 44
5,004	18 "	9.8	1 65	8,256 60
79,148	2 foot.	8.8	2 28	180,446 04
21,194	2½ "	11.0	2 99	68,370 06
17,214	3 "	11.9	4 12	70,921 68
8,097	3½ "	12.0	4 88	89,108 51
6,688	4 "	12.5	5 76	88,494 08
5,015	4½ "	12.2	5 97 +	29,918 25
3,984	5 "	15.6	7 28	28,804 32
3,064	6 "	17.7	11 05	33,857 20
10,949	7 "	15.4	11 88	124,599 62
6,680	7½ "	12.5	10 57	70,079 10
5,337	8 "	17.9	14 45	77,119 65
7,267	9 "	15.4	14 17	92,978 39
546,918	. . . . .	. . . . .	. . . . .	\$1,825,458 44

Cost of constructing 8,979 catch-basins. \$ 179,055 00

Cost of excavating 9,492 cubic yards of rock. 28,477 00

\$ 207,532 00

Expenditures for sewers and catch-basins. \$ 1,532,990 44

**TOTAL NUMBER OF MAN-HOLES AND CATCH-BASINS IN PLACE DECEMBER
31, 1891, IN THE CITY LIMITS.**

CONSTRUCTED DURING THE YEAR.				Total Built in 1891.	Total Built previous to 1891.	Total in place December 31, 1891.
DIVISIONS.	SOUTH.	WEST.	NORTH.			
Catch-basins	1,204	2,353	422	3,979	26,489	30,468
Man-holes	1,267	1,909	560	3,736	29,990	33,726

SEWERAGE DEPARTMENT.

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TOTAL COST FOR THE CONSTRUCTION OF SEWERS AND CATCH-BASINS
AND MAINTAINING SAME SINCE THE ESTABLISHMENT OF THE SEWER-
AGE SYSTEM IN 1855 TO JANUARY 1ST, 1892.

Year.	Lineal feet of Sewers built.	No. of Catch- Basins built.	No. of Man- Holes built.	No. of House Drains put in.	Cost of clean- ing Sewers and Catch-Basins.	Street Inter- sections and repairs of Sewers.	Cost of Construction.
Previous to 1861.	283,586	1,174	2,102	2,194	\$ 5,619 48	No. amts. found on reports.	\$ 665,188 46
1861.	2,826	18	33	243	1,715 60	\$ 2,951 76	3,617 81
1862.	15,676	72	66	365	4,897 24	3,024 07	57,036 42
1863.	39,605	192	204	536	5,065 40	2,058 11	169,527 38
1864.	25,021	189	183	512	9,417 81	4,597 63	87,221 48
1865.	29,948	223	168	1,288	13,818 07	7,493 56	137,643 02
1866.	48,127	327	271	3,732	28,445 16	7,773 65	235,564 53
1867.	89,681	418	555	3,703	26,540 81	9,581 42	416,730 51
1868.	47,841	480	293	3,261	26,954 06	11,287 08	197,152 92
1869.	139,705	771	928	3,979	26,015 68	7,527 16	654,141 26
1870.	78,166	626	468	5,187	21,464 30	10,954 74	258,664 70
1871.	50,716	277	357	3,093	17,415 46	42,557 72	153,295 36
1872.	47,342	245	341	1,435	21,484 16	16,975 40	173,255 76
1873.	146,702	897	1,015	4,691	31,229 27	29,781 97	450,222 90
1874.	222,322	1,054	1,474	6,292	36,884 57	21,996 72	587,507 88
1875.	120,971	958	789	3,365	32,093 23	28,107 40	342,932 89
1876.	15,248	155	75	1,172	29,341 41	19,803 29	79,545 28
1877.	64,666	363	431	1,322	35,763 33	16,959 44	291,829 68
1878.	88,031	492	603	1,544	25,704 37	19,259 49	37,264 97
1879.	145,381	820	1,043	2,953	29,286 67	10,049 69	130,840 50
1880.	79,128	271	554	4,196	25,561 48	25,068 11	92,544 08
1881.	132,076	548	917	4,810	34,512 15	30,967 89	452,310 06
1882.	98,515	792	725	5,677	33,969 35	26,618 05	224,450 16
1883.	75,364	835	497	5,963	34,749 74	25,140 81	232,084 33
1884.	101,547	751	654	5,957	43,678 08	37,893 29	253,029 91
1885.	118,647	796	854	6,325	46,532 13	45,333 02	203,188 03
1886.	103,193	734	723	7,441	51,110 46	50,707 64	177,647 24
1887.	90,584	756	605	8,100	50,264 65	43,789 60	186,496 98
1888.	104,903	816	674	8,152	52,422 41	53,782 97	228,567 57
1889.	171,023	1,351	1,190	4,308	61,503 01	63,459 25	350,234 54
Amended Districts } previous to 1890. }	993,573	6,102	8,620	Estima Cost of	ted cost of const maintenance not	known, }	2,614,324 75
1890.	379,203	2,986	2,604	9,279	107,873 34	83,388 08	826,718 67
1891.	†546,918	3,979	3,736	11,312	123,620 44	95,906 75	1,532,990 44
Totals.	4,636,235	30,463	33,752	132,332	\$1,094,959 32	\$855,395 76	\$12,493,660 42

†Of this amount, 5,897 feet have been taken up and replaced by sewers of larger sizes, leaving in place January 1, 1892, 4,630,338 feet, or 888.321 miles.

Of the above 393,758 miles are constructed of brick, and 494,563 miles are of vitrified clay pipe.

LENGTH AND INTERIOR DIAMETER OF SEWERS IN PLACE, DECEMBER 31, 1891, IN THE DIFFERENT
WARDS OF THE PRESENT CITY LIMITS.

WARDS.	9 Feet.	8 Feet.	7 1/4 Feet.	7 Feet.	6 1/4 Feet.	6 Feet.	5 1/4 Feet.	5 Feet.	4 1/2 Feet.	4 Feet.	3 1/2 Feet.	3 Feet.	2 1/2 Feet.	2 Feet.	20 Inch.	18 Inch.	15 Inch.	12 Inch.	9 Inch.	6 Inch.	TOTAL.				
1st.								247		1,026		12,337	17,033	6,077	15,210		1,870	68,572			121,352				
2d.						1,450		4,255		670		3,648	13,560	252	25,293		850	42,521			94,410				
3d.						704		1,053		1,030		5,025	11,730		23,117		8,154	27,524			54,340				
4th.						1,690		8,018		4,976	1,835	10,445	21,255		34,157		10,463	49,062			130,120				
5th.					2,132	3,112		5,750		3,532	2,933	4,137	8,693		1,626		16,249	30,775			207,689				
6th.										3,865	4,000	2,823	1,963				2,688	31,409			78,514				
7th.										4,000	2,823	1,963	2,645				4,403	38,206			76,330				
8th.										4,000	2,823	1,963	2,645				125	40,867			76,330				
9th.						1,635				4,000	2,823	1,963	2,645				125	40,867			76,330				
10th.						1,636				4,000	2,823	1,963	2,645				125	40,867			76,330				
11th.								3,330		4,541	9,765	10,713	10,823				999	69,723			115,770				
12th.										18,440	10,230	10,430	2,225				989	3,925			115,770				
13th.										4,075	10,230	9,976	10,725				10,665	57,552			122,564				
14th.										1,565	11,320	9,976	9,851				4,761	28,757			122,564				
15th.										3,911	13,842	3,332	5,232				4,330	35,854			122,564				
16th.										2,279	1,636	5,544	12,353				4,230	38,975			122,564				
17th.										6,755		4,315					5,371	31,623			122,564				
18th.										4,011							660	31,623			122,564				
19th.										10,130	9,300	1,023					1,014	42,541			122,564				
20th.										2,220	3,000	3,108	7,333				6,010	13,860			122,564				
21st.										2,943	2,510	1,020	12,000				1,275	6,943			122,564				
22d.										683	8,150	1,932	3,841				1,536	42,749			122,564				
23d.										8,150	3,191	1,932	25,833				1,738	83,146			122,564				
24th.										2,615	2,601	4,531	42,362				33,550	3,317			122,564				
25th.										1,385	6,115	8,440	11,021				66,735	58,768			122,564				
26th.										1,320	10,600	8,155	25,971				3,380	115,341			122,564				
27th.										3,316	2,016	2,005	8,030				3,380	68,731			122,564				
28th.										2,600	6,336	8,510	12,117				8,069	15,344			122,564				
29th.										2,600	6,336	8,510	12,117				8,069	15,344			122,564				
30th.										7,913	6,793	6,559	15,816				6,558	30,110			122,564				
31st.										1,257	1,354	3,880	3,985				6,558	30,110			122,564				
32d.										2,200	19,017	6,754	2,451				6,558	30,110			122,564				
33d.										2,368	2,705	3,513	3,406				6,558	30,110			122,564				
34th.										2,640	5,697	442	2,122				6,558	30,110			122,564				
TOTAL	22,760	13,102	11,936	26,068	7,477	43,141	17,363	113,740	3,933	103,543	173,377	87,839	3,333	161,173	1,330	255,433	12,550	1,007,246	8,706	127,481	703,583	1,600,723	73,497	17,033	4,600,386

SEWERAGE DEPARTMENT.

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SEWERS CONSTRUCTED DURING THE YEAR 1891 IN THE
WEST DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Adams	St. Louis avenue	Homan avenue	1	724
Adams	Homan avenue	Spaulding avenue	1½	680
Adams	Central Park avenue	St. Louis avenue	2	625
Adams	Spaulding avenue	Colorado avenue	2	555
Augusta	California avenue	Rockwell	2	1,296
Avers avenue	Ogden avenue	North	1	550
Attrill	Milwaukee avenue	Stave	1	433
Albany avenue	Chicago avenue	Ohio	1	1,447
Albany avenue	226 ft. N. of Congress	Jackson	1	637
Albany avenue	Twelfth	Lexington avenue	1	1,946
Albany avenue	Flournoy	Harrison	1	332
Albany avenue	Sixteenth	Douglas Park boulevard	1	1,232
Albany avenue	Kinzie	Central Park boulevard	1½	489
Albany avenue	Congress	North	1½	226
Albany avenue	Lexington avenue	Flournoy	1½	332
Albany avenue	Ohio	Central Park boulevard	2	788
Armitage avenue	Keeney avenue	Howard avenue	2½	600
Armitage avenue	Crawford avenue	Keeney avenue	3	1,327
Armitage avenue	Hamlin avenue	Crawford avenue	3½	1,338
Armitage avenue	Central Park avenue	Hamlin avenue	4	1,350
Armitage avenue	Kedzie avenue	Central Park avenue	4½	2,630
Byron	California avenue	Humboldt boulevard	1	1,140
Baldwin	Kinzie	North	1	268
Bonney avenue	Twenty-sixth	Thirtieth	1	2,015
Bonney avenue	Harrison	North	1	330
Bonney avenue	Twenty-second	Ogden avenue	1½	532
Barckley	Thomas	Division	1	623
Barckley	Augusta	Thomas	1½	665
Berlin	Western avenue	Leavitt	1	1,295
Bingham	768 ft. N. of Armitage ave	Cornelia	1	422
Bingham	Armitage avenue	North	1½	763
Binzo	Elston avenue	Lister	1½	315
Belmont avenue	Elston avenue	Milwaukee avenue	7	6,982
Columbia place	Milwaukee avenue	Leavitt	1	674
Campbell avenue	Twelfth	South	1	512
Clarinda	Ashland avenue	Wood	1	1,080
Courtland	Western avenue	Rockwell	1	1,300
California avenue	Berlin	Milwaukee avenue	1	195
California avenue	Fullerton avenue	South of Berlin	1½	401
California avenue	Chicago avenue	Grand avenue	3	441
Churchill	Robey	East of Leavitt	1	1,145
Chicago avenue	Central Park boulevard	Albany avenue	1	551
Chicago avenue	Kedzie avenue	Albany avenue	1½	423
Coblentz	Robey	Leavitt	1	1,301
Chancey	Point	East	1	230
Carroll avenue	318 ft. E. of Homan avenue	East	1½	336
Clarkson avenue	Armitage avenue	Palmer square	1½	1,176
Clarkson avenue	Armitage avenue	Bloomington road	1½	1,308
Cornelia	Milwaukee avenue	Point	1	899
Central Park avenue	Central Park boulevard	Kinzie	1½	529
Central Park avenue	Lake	Kinzie	1½	1,084
Central Park avenue	Ohio	Central Park boulevard	2	755
Congress	Washtenaw avenue	West	2	254
Congress	Washtenaw avenue	Rockwell	1½	575
Collins court	Kedzie avenue	Albany avenue	1½	671

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Dickens	California avenue	Humboldt boulevard ...	1	1,140
Dudley	Hervey	Asylum place.....	1	630
Drake avenue	Ohio	Central Park boulevard.	1½	575
Diversey avenue.....	River.....	Kedzie avenue	7½	6,630
Dickey	400 ft. W. of Homan avenue.	200 ft. E. of Homan av.	1	666
N.S. Douglas Park boul.	Kedzie avenue.....	Albany avenue.....	1½	650
S.S. Douglas Park boul.	Spaulding avenue.....	Albany avenue.....	1½	1,306
Ems.	Breslau	Western avenue.....	1	257
Ems.	Leavitt	Leipzig	1	286
Ems.	Breslau	Leipzig	1½	753
Elkgrove	Hervey	C. & N.-W. R'y.....	1	560
Frankfort	Western avenue.....	Leavitt	1	1,236
Frankfort	Leavitt	Robey	1	1,232
Fairfield avenue	Augusta	Iowa	1	666
Fulton	Homan avenue	E. of Central Park ave.	1	1,081
Fillmore	Washtenaw avenue.....	East	1	575
Fillmore	St. Louis avenue	Homan avenue	1	675
Fillmore	Albany avenue	Francisco	1½	1,340
Fillmore	Spaulding avenue	Homan avenue	1½	660
Fillmore	Central Park avenue	St. Louis avenue.....	1½	660
Fillmore	Kedzie avenue.....	Spaulding avenue.....	2	665
Fillmore	California avenue.....	Francisco	2	638
Fourteenth.....	Hoyne avenue.....	Leavitt	1	674
Fourteenth.....	Robey	Hoyne avenue.....	1½	658
Flournoy.....	Albany avenue	Sacramento avenue.	1	671
Forrest avenue	Fullerton avenue	Humboldt boulevard ..	1½	1,177
Fifteenth	Kedzie avenue.....	Spaulding avenue.....	2	632
Fairview avenue.....	Fullerton avenue.....	Humboldt boulevard ..	1½	1,200
Francis place	California avenue.....	Point	1	454
Fortieth	River.....	Twenty-second	9	7,267
Fortieth	Twenty-second	Twelfth	8	5,337
Fortieth	Twelfth	Jackson	7	3,967
Fortieth	Jackson	Lake	6	3,064
Fortieth	Lake	Kinzie	5	1,100
Grand avenue	Augusta	Division.....	5	2,884
Grand avenue	Chicago avenue.....	California avenue.....	1	970
Grand avenue	Kedzie avenue	Augusta.....	1½	978
Grand avenue	Kedzie avenue.....	Chicago avenue.....	2	1,786
Grand avenue	California avenue	695 ft. E. of Washtenaw avenue.	2	1,500
Grenwich	Hoyne avenue.....	Leavitt	1	565
Greenwood avenue.....	Oakley avenue	Western avenue.....	1	662
Grenshaw avenue.....	Homan avenue.....	West	1	140
Grenshaw avenue.....	Spaulding avenue.....	Homan avenue	1½	660
Grenshaw avenue.....	Kedzie avenue	Spaulding avenue.....	2	674
Gloy place.....	Elston avenue.....	Lister.....	1½	290
Hirsch	Davis	West	1	97
Hirsch	California avenue.....	Western avenue.....	1	1,994
Hoyne avenue.....	Kosciusko	Asylum place.....	1	502
Hoyne avenue.....	Cornelia	North	1	229
Hoyne avenue.....	Emma	South	1	229
Hoyne avenue.....	Cornelia	Iowa.....	1½	294
Hoyne avenue.....	Fullerton avenue	Kosciusko	2	790
Harvard	Sacramento avenue	Albany avenue.....	1	661
Harvard	Washtenaw avenue	P. C. & St. L. R. R. ...	1½	572
Harvard	Campbell avenue	P. C. & St. L. R. R. ...	1½	630

SEWERAGE DEPARTMENT.

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WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Harvard	Francisco	Sacramento avenue....	1½	631
Harvard	Kedzie avenue	Albany avenue.....	2	701
Harvard	California avenue	Francisco	2	667
Henry court.....	Point	East	1	230
Homan avenue	Wisconsin Central R. R. .	South.	1	651
Homer	Western avenue	Washtenaw avenue....	1	1,960
Homan avenue	Fulton	Kinzie	1½	615
Humboldt	California avenue	Rockwell	1	1,808
Humboldt	Wabansia avenue.....	Armitage avenue.....	1½	1,889
Heine	North avenue	Armitage avenue.....	1½	2,572
Hoffman avenue.....	Diversey	Humboldt boulevard ..	1½	1,232
Hoffman avenue.....	Fullerton avenue	Humboldt boulevard ..	1½	1,188
Hoffman avenue.....	Fullerton avenue	Milwaukee avenue	1½	1,650
Harrison	Spaulding avenue.....	Homan avenue	1½	666
Harrison	Central Park avenue	Douglas Park boulevard.	1½	1,106
Harrison	Kedzie avenue.....	Spaulding avenue.....	2	680
Hamlin avenue.....	Ohio	Kinzie	1½	1,286
Hamlin avenue.....	Nineteenth.....	North.....	2½	750
Hamlin avenue.....	Twenty-second	Nineteenth.....	3	1,268
Hastings.....	Lincoln	West	1½	533
W. S. Humboldt blvd. .	Armitage avenue	Palmer square.....	1½	1,175
W. S. Humboldt blvd. .	Fullerton avenue	Palmer square.....	1½	1,170
W. S. Humboldt blvd. .	Fullerton avenue	Logan square.....	1½	1,166
E. S. Humboldt blvd. .	Logan square	Linden place	1½	280
E. S. Humboldt blvd. .	Shakespeare.....	Palmer square	1½	344
E. S. Humboldt blvd. .	Armitage avenue	Shakespeare.....	2	1,144
E. S. Humboldt blvd. .	Fullerton avenue	Palmer square	1½	1,200
E. S. Humboldt blvd. .	Fullerton avenue	Linden place	2	878
Iowa	California avenue.....	Fairfield avenue	1½	285
Iowa	Rockwell	Fairfield avenue	1	991
Johnston avenue.....	550 ft. W. of Thomas ..	Humboldt boulevard ..	1	670
Johnston avenue.....	Thomas.....	West	1½	550
Johnston avenue.....	Thomas.....	California avenue	2	1,297
Julia court	Stave	West	1	230
Kedzie avenue.....	Bartlett.....	Weage.....	1	380
Kedzie avenue.....	Norwood.....	Bartlett.....	1½	825
Kedzie avenue.....	Courtland.....	Wabansia avenue	1½	1,275
Kedzie avenue.....	Dickens.....	Palmer square	1½	520
Kedzie avenue.....	Armitage avenue	Courtland.....	2	668
Kedzie avenue.....	North avenue	Wabansia avenue.....	2	660
Kedzie avenue.....	Armitage avenue.....	Dickens.....	2	660
Kedzie avenue.....	Wheaton avenue.....	Norwood.....	2	1,018
Kedzie avenue.....	Augusta.....	Wheaton avenue.....	2½	975
Kosciusko.....	Sobieski	Robey	1	315
Kosciusko.....	St. Hedwig's	Leavitt	1	335
Kosciusko.....	St. Hedwig's	Sobieski.....	1½	670
Kuehl place.....	Elston avenue	Lister	1½	335
Lawndale avenue.....	Harrison	North.....	1	447
Lawndale avenue.....	Twenty-seventh.....	Twenty-eighth.....	1½	669
Lawndale avenue.....	Ogden avenue.....	South.....	1½	80
Lawndale avenue.....	Ohio	Kinzie	1½	1,288
Lawndale avenue.....	Twenty-eighth	Thirty-first	2	1,336
Lawndale avenue.....	Twenty-sixth.....	Twenty-seventh.....	1	682
Lawndale avenue.....	River	Thirty-first	2½	1,180
Lexington avenue.....	Harrison.....	North.....	1½	637

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Lexington avenue.....	Sacramento avenue.....	Francisco.....	1	666
Lexington avenue.....	Kedzie avenue.....	Albany avenue.....	2	701
Lincoln.....	Twelfth.....	Thirteenth.....	1	552
Leavitt.....	Rhine.....	Pleasant place.....	1	275
Leavitt.....	Wabansia avenue.....	South.....	1	362
Leavitt.....	Jane.....	Thomas.....	1½	333
Leavitt.....	Fullerton avenue.....	North.....	2	110
Leavitt.....	Fullerton avenue.....	Rhine.....	2	525
Lubeck.....	Western avenue.....	Robey.....	1	2,535
Lister.....	Asylum place.....	Robey.....	1	1,375
Laurel.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,175
Linden.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,182
Lill avenue.....	Western avenue.....	Station.....	1	1,065
S. S. Logan square.....	Humboldt boulevard.....	Milwaukee avenue.....	1	393
Millard avenue.....	310 ft. S. of Twenty-eighth	South.....	1	132
Maplewood avenue.....	Division.....	Hirsch.....	1	1,212
Maplewood avenue.....	North avenue.....	Bloomington road.....	1½	1,156
Maplewood avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,200
Mozart.....	North avenue.....	Armitage.....	1½	2,572
Mozart.....	Armitage avenue.....	Shakespeare.....	1½	1,175
Montana.....	Western avenue.....	Station.....	1½	375
Myrtle.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,180
Moffat.....	Western avenue.....	Rockwell.....	1	1,298
Milwaukee avenue.....	1000 ft. N. of Fullerton ave.	Logan square.....	2½	894
Milwaukee avenue.....	Fullerton avenue.....	North.....	3	1,000
Nicolett avenue.....	Park place.....	West.....	1	205
Nebraska avenue.....	Armitage avenue.....	Walmer square.....	1½	1,176
Nebraska avenue.....	Armitage avenue.....	Bloomington road.....	1½	1,308
Norman avenue.....	North avenue.....	Bloomington road.....	1½	1,258
North avenue.....	Keeney avenue.....	Grand avenue.....	2½	1,200
North avenue.....	Hamlin avenue.....	Keeney avenue.....	3	2,649
North avenue.....	Central Park avenue.....	Hamlin avenue.....	3½	1,354
North avenue.....	Homan avenue.....	Central Park avenue.....	4	1,332
Oakley avenue.....	Fullerton avenue.....	Ems.....	2	1,008
Oakley avenue.....	Huron.....	Superior.....	1	333
Oakley avenue.....	Ohio.....	North.....	1	251
Oakley avenue.....	Chicago avenue.....	Superior.....	1½	333
Oakley avenue.....	Fullerton avenue.....	Station.....	2	572
Ohio.....	Kedzie avenue.....	Central Park boulevard.....	3	1,073
Ohio.....	Springfield avenue.....	Harding avenue.....	3	333
Ohio.....	Springfield avenue.....	Lawndale avenue.....	3½	1,330
Ohio.....	St. Louis avenue.....	Lawndale avenue.....	4	1,330
N. S. Ogden avenue.....	Hamlin avenue.....	West.....	1½	495
N. S. Ogden avenue.....	Kedzie avenue.....	Spaulding avenue.....	1½	695
N. S. Ogden avenue.....	Central Park avenue.....	Hamlin avenue.....	1½	1,452
N. S. Ogden avenue.....	Central Park avenue.....	St. Louis avenue.....	2	730
N. S. Ogden avenue.....	Homan avenue.....	St. Louis avenue.....	1½	726
S. S. Ogden avenue.....	Hamlin avenue.....	Central Park avenue.....	1	1,460
S. S. Ogden avenue.....	Homan avenue.....	Central Park avenue.....	1½	1,450
Pulaski.....	Leavitt.....	St. Hedwig's.....	1	335
Pulaski.....	Hoyne avenue.....	St. Hedwig's court.....	1½	332
Perry.....	Cherry place.....	Edbrooke place.....	1	301
Perry.....	Bremen.....	Edbrooke place.....	1½	298
Perry.....	Milwaukee avenue.....	Cherry place.....	2	526
Perry.....	Fullerton avenue.....	Bremen.....	2	833

SEWERAGE DEPARTMENT.

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WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Polk	Sacramento avenue	Francisco	1	668
Polk	Washtenaw avenue	East	1	575
Polk	Albany avenue	Sacramento avenue.....	1½	638
Polk	Kedzie avenue	Albany avenue	2	701
Pleasant place	Leavitt	100 ft. W. of Oakley ave.	1	798
Prindiville	Stave	Milwaukee avenue.....	1	434
Point	Francis	California avenue.....	1½	497
Point	Armitage avenue.....	Francis	2	564
Powell avenue.....	Alice place.....	Edbrooke place.....	1½	600
Powell avenue.....	Milwaukee avenue.....	Edbrooke place.....	2	1,308
Powell avenue.....	Fullerton avenue	Alice place.....	2	580
Potomac avenue.....	California avenue	Rockwell.....	2	1,900
Paulina.....	River.....	Blue Island avenue.....	3	2,230
S. S. Palmer square.....	Humboldt boulevard.....	Kedzie avenue.....	1	1,262
N. S. Palmer square.....	Humboldt boulevard.....	Kedzie avenue.....	1	1,400
Rice	Washtenaw avenue.....	Rockwell.....	1	653
Rosebud	Wabansia avenue	Bloomingtondale road.....	1	440
Rhine	Western avenue	Leavitt	1	1,290
Rockwell	Potomac	Bismark.....	1	339
Rockwell	Werder	South.....	1	236
Rockwell	Humboldt.....	Augusta.....	1	840
Rockwell	Bismark.....	Thompson.....	1½	991
Rockwell	Potomac	Werder	1½	316
Rockwell	Thomas.....	Humboldt.....	1½	268
Rockwell	North avenue	Thompson	2	614
Sixteenth	Kedzie avenue	Albany avenue	2	672
Sixteenth	Homan avenue	Turner avenue.....	1½	335
Superior	Western avenue	Rockwell.....	1	1,343
Superior	Leavitt	537 ft. W. of Oakley ave.	1	1,155
Sobieski	Asylum place	C. & N.-W. R'y.....	1	775
St. Hedwig's.....	Pulaski	Asylum place.....	1	1,035
Sawyer avenue.....	Sixteenth	Ogden avenue.....	1	542
Sawyer avenue.....	Douglas Park boulevard	Sixteenth	1	1,214
Sawyer avenue.....	Twenty-second	North.....	1	300
Shakespeare	California avenue	Humboldt boulevard	1	1,140
Sacramento avenue.....	Twelfth.....	Fillmore	1	618
St. Louis avenue	Ogden avenue.....	Twenty-second	1	1,340
St. Louis avenue.....	Huron	Chicago avenue.....	1½	661
St. Louis avenue.....	Fulton	Kinzie	1½	615
Sheridan avenue.....	Twelfth.....	Fillmore	1	570
Sheridan avenue.....	North avenue	Bloomingtondale road.....	1½	1,310
Station	Leavitt	Western avenue.....	1	1,715
St. Helen.....	Stave.....	West.....	1	230
St. George court.....	Stave.....	Milwaukee avenue	1	434
St. Mary's court	Stave.....	West	1	230
St. Paul	Western avenue	Rosebud	1½	875
Stave.....	Armitage avenue	Julia court	2	1,420
Stave	California avenue	Julia court	1½	575
Seymour.....	Armitage avenue	Courtland	2	636
Seymour.....	Bloomingtondale road.....	Courtland	1½	645
Thomas	Leavitt	Hoyne avenue.....	1	664
Thomas	Dudley	West	1	180
Troy	Twelfth.....	Douglas Park boulevard.....	1	1,188
Troy	Chicago avenue	Ohio.....	1	1,331
Trumbull avenue	Ohio	Huron.....	2	664

WEST DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Trumbull avenue	Ogden avenue.....	South.....	1	1,397
Twenty-first.....	Western avenue	West.....	1½	501
Twenty-first.....	Rockwell.....	Washtenaw avenue....	1	674
Twenty-first.....	California avenue.....	Washtenaw avenue....	1½	625
Twenty-first.....	Homan avenue	St. Louis avenue.....	2	614
Twenty-first.....	California avenue.....	Douglas Park boulevard.	2	864
Twenty-third.....	Bonney avenue.....	East.....	1	150
Twenty-third.....	Hamlin avenue.....	East.....	1	150
Twenty-seventh	Lawndale avenue.....	Bonney avenue	1½	366
Twenty-ninth	Lawndale avenue.....	Bonney avenue	1½	333
Thirtieth	Lawndale avenue.....	Bonney avenue	1½	366
Thirteenth	Kedzie avenue	Albany avenue.....	1½	650
Turner avenue.....	Sixteenth	Ogden avenue.....	1	844
Talman avenue.....	Thompson	Hirsch.....	1½	664
Truro	Kedzie avenue	Albany avenue.....	1½	671
Taylor.....	Kedzie avenue.....	Albany avenue.....	2	702
Thompson	Oakley avenue	East.....	1	102
Thompson	Leavitt	West	1	100
Van Buren.....	Spaulding avenue	Homan avenue	1½	672
Van Buren.....	Spaulding avenue	Kedzie avenue	2	678
Wabansia avenue.....	Leavitt	Milwaukee avenue	1	300
Wabansia avenue.....	Western avenue	Leavitt	2	1,300
Werder.....	California avenue.....	Rockwell.....	1	1,188
Washtenaw avenue	Rice.....	Chicago avenue.....	1	285
Washtenaw avenue	Division	Hirsch.....	1½	1,225
Washtenaw avenue	Augusta	Rice.....	1½	993
Washtenaw avenue	Twelfth.....	North.....	1½	665
Wood	Asylum place	South.....	1½	415
Western avenue	Evergreen	St. Helen court....	1½	565
Western avenue	Franklin	North.....	1½	446
Western avenue	Fullerton avenue	Humboldt boulevard...	2	1,183
Western avenue	Evergreen avenue	Franklin avenue	2	1,300
TOTAL .....	.....	.....	.....	280,198

SEWERS CONSTRUCTED DURING THE YEAR 1891 IN THE
SOUTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Alley E. of Vincennes rd	Seventy-third	Seventy-fourth	1	665
Alley S. of Fifty-fifth	Morgan	Aberdeen	1	669
Alley W. of Halsted	Seventy-fifth	Seventy-seventh	$\frac{3}{4}$	1,200
Alley W. of Green	Seventy-fifth	Seventy-seventh	$\frac{3}{4}$	1,200
Alley W. of Peoria	Seventy-fifth	Seventy-seventh	$\frac{3}{4}$	1,200
Alley W. of Sangamon	Seventy-fifth	Seventy-seventh	$\frac{3}{4}$	1,200
Alley E. of Drexel ave.	Sixty-third	Sixty-fifth	$\frac{3}{4}$	1,275
Alley W. of Drexel ave.	Forty-ninth	South of Fiftieth	1	1,226
Alley E. of Grand blvd.	Forty fifth	Boulevard place	1	788
Armour avenue	Fifty-third	South	1	263
Archer avenue	Blanchard avenue	C., St. L. & P. R. R.	1	1,218
Atlantic	Forty-ninth	Fiftieth	1	892
Ashland avenue	Egan avenue	River	$1\frac{1}{4}$	749
Bristol	Wentworth avenue	C., R. I. & P. R'y	1	502
Boulevard place	350 ft. W. of Vincennes ave.	West	$1\frac{1}{4}$	289
Boulevard place	289 ft. W. of Vincennes ave.	West	1	50
Blanchard	Thirty-fifth	Thirty-seventh	3	1,344
Blanchard	Thirty-seventh	Thirty-ninth	$2\frac{1}{2}$	1,325
Calumet avenue	Thirty-eighth	South	1	342
Calumet avenue	Forty-fifth	Forty-sixth	$1\frac{1}{4}$	665
Calumet avenue	Forty-sixth	Forty-seventh	1	630
Calumet avenue	Thirty-ninth	Fortieth	$1\frac{1}{4}$	660
Calumet avenue	Fortieth	Forty-first	2	635
Champlain avenue	Forty-ninth	Fiftieth	1	635
Carpenter	Fifty-sixth	North	$1\frac{1}{4}$	338
Chestnut	Halsted	Union avenue	$1\frac{1}{4}$	517
Chestnut	Union avenue	East	1	132
California avenue	Thirty-fifth	Thirty-seventh	8	1,398
California avenue	Thirty-seventh	Thirty-ninth	$2\frac{1}{2}$	1,380
Daley	Thirty-fifth	Thirty-seventh	1	1,276
Daley	Thirty-seventh	Thirty-eighth	1	590
Drexel avenue	Alley S. of Sixtieth	Sixty-third	1	1,760
Erie avenue	Ninetieth	South	$1\frac{1}{4}$	258
Erie avenue	353 ft. N. of Eighty-ninth	Eighty-eighth	$1\frac{1}{4}$	817
Erie avenue	Eighty-seventh	Eighty-eighth	1	687
Erie avenue	253 ft. S. of Ninetieth	Ninety-first	1	367
Erie avenue	Eighty-ninth	North	2	853
Emerald avenue	Seventy-first	Seventy-third	1	1,308
Emerald avenue	Fifty-second	Fifty third	1	675
Emerald avenue	Fifty first	Fifty-second	$1\frac{1}{4}$	668
Emerald avenue	Fifty-third	Fifty-fourth	$1\frac{1}{4}$	565
Ellis avenue	Alley S. of Sixtieth	Sixty-third	1	1,760
Ellis avenue	Fifty-sixth	Fifty-seventh	2	663
East End avenue	Fifty-first	North	2	223
Eighty-eighth	Mackinaw avenue	Buffalo avenue	1	386
Fortieth court	Wallace	Wright	1	669
Forty first	Wallace	Wright	1	669
Forty-third	Dearborn	West	1	235
Forty-third	State	Dearborn	$1\frac{1}{4}$	370
Forty-third	Ashland avenue	Paulina	$2\frac{1}{2}$	650
Forty-sixth	Cottage Grove avenue	Vincennes avenue	1	1,194
Forty-sixth	Cottage Grove avenue	Alley W. of Drexel ave.	$1\frac{1}{4}$	357
Forty-sixth	Vincennes avenue	Alley E. of Grand blvd.	$1\frac{1}{4}$	508
Forty-seventh	Stewart avenue	West	1	286
Forty-seventh	Prairie avenue	State	1	1,487

SOUTH DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Forty-seventh	Vincennes avenue	Cottage Grove avenue ..	1	1,862
Forty-seventh	Vincennes avenue	Alley E. of Grand blvd.	1½	497
Forty-seventh	Prairie avenue	Alley W. of Grand blvd.	1½	581
Forty-eighth	Halsted	Wallace	1	1,293
Forty-eighth	Center avenue	Aberdeen	2	666
Fiftieth	Halsted	Winter	1	595
Fiftieth	St. Lawrence avenue	Champlain avenue	1½	340
Fiftieth	Cottage Grove avenue	Alley W. of Drexel blvd.	1½	360
Fifty-third	Ashland avenue	Lafin	2	630
Fifty-third	Carpenter	Morgan	1	298
Fifty-third	Center avenue	Carpenter	2	995
Fifty-fourth	Justine	Lafin	2	336
N. side of Fifty-fifth	Lake avenue	Cottage Grove avenue ..	1	3,800
S. Side of Fifty-fifth	Lake avenue	Cottage Grove avenue ..	1	3,816
Fifty-seventh	Carpenter	Morgan	1	347
Fifty-seventh	Sherman	Wallace	1½	320
Fifty-seventh	Ada	West	1½	240
Fifty-seventh	School	Tracy avenue	1½	290
Fifty-seventh	Halsted	Sherman	2	958
Fifty-seventh	Center avenue	Ada	2	1,019
Fifty-seventh	Center avenue	Carpenter	2	995
Fifty-eighth	Halsted	Sherman	2	973
Fifty-eighth	School	Tracy avenue	1½	310
Fifty-eighth	Tracy avenue	Stewart avenue	1	318
Fifty-ninth	Ada	Loomis	1	343
Fifty-ninth	Center avenue	Ada	2	995
Fifty-ninth	Ashland avenue	Loomis	2	1,355
Forrestville avenue	Fiftieth	Fifty-first	2	668
Forrestville avenue	Forty-ninth	Fiftieth	1½	665
Forrestville avenue	Forty-eighth	Forty-ninth	1	628
Green	Sixty-fourth	Sixty-fifth	1	666
Green	Fifty-sixth	Fifty-seventh	1	670
Green	Sixty-seventh	Sixty-eighth	1½	668
Green	Sixty-third	Sixty-fourth	1½	664
Grant avenue	Thirty-fifth	Thirty-ninth	1	2,581
Geneva	California avenue	Grant avenue	1	675
Geneva	Grant avenue	Blanchard	1½	665
Gorden	La Salle	West	1	163
Hickling	Halsted	Peoria	1½	620
Hickling	Alley E. of Morgan	Peoria	1	470
Hart	Thirty-seventh	Thirty-eighth	1	608
Hart	Thirty-eighth	Thirty-ninth	1½	638
Haven	Shields avenue	West	1	210
Halsted	Seventy-seventh	Eighty-fifth	2	5,318
Halsted	451 ft. S. of Seventy-fifth ..	Seventy-seventh	2½	1,125
Indiana avenue	Fifty-first	Fifty-second	1½	635
Indiana avenue	Fifty-second	South	1	552
Justine	Fifty-third	South	1	263
Joseph	Grant	East	1	273
Joseph	California avenue	Pearson avenue	1	1,999
Joseph	California avenue	Grant avenue	1½	664
Jackson avenue	Fifty-fourth	Fifty-fifth	1½	590
Jackson avenue	Fifty-third	Fifty-fourth	1	676
Kenwood place	Vincennes avenue	Alley E. of Grand blvd.	1½	502
Leggate	Thirty-ninth	Joseph	1	843

SOUTH DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Leggate	Thirty-sixth	Smith	1½	350
Leggate	Thirty-eighth	Joseph	1½	327
Lafin	Fifty-third	Alley S. of Fifty-fifth	1	1,168
Lincoln	Thirty-fourth	Thirty-fifth	2	682
Morgan	Sixtieth	Sixty-first	1	660
Morgan	Sixty-second	Sixty-third	1	660
Morgan	Sixty-fourth	Sixty-fifth	1	666
Morgan	Fiftieth	Fifty-first	1	670
Morgan	Fifty-second	Fifty-fourth	1	1,392
Morgan	Sixty-seventh	Sixty-eighth	1½	670
Morgan	Sixty-first	Sixty-second	1½	670
Morgan	Forty-ninth	Fiftieth	1½	650
Morgan	Fifty-first	Fifty-second	1½	670
Morgan	Sixty-third	Sixty-fourth	1½	668
Morgan	Forty-seventh	Forty-ninth	2	1,870
Mackinaw avenue	Ninetieth	Alley N. of Ninety-first	1	478
Mackinaw avenue	100 ft. S. of Eighty-eighth	Eighty-seventh	1	774
Mackinaw avenue	266 ft. N. of Ninetieth	100 ft. S. of Eighty-Eighth	1½	926
Mackinaw avenue	Ninetieth	North	2	266
Niagara	Halsted	Winter	1	595
Peoria	Sixty-fourth	Sixty-fifth	1	666
Peoria	Fifty-seventh	Alley S. of Fifty-fifth	1	1,024
Peoria	Sixty-seventh	Sixty-eighth	1½	669
Peoria	Sixty-third	Sixty-fourth	1½	664
Pearson	Smith	Thirty-seventh	1	250
Pearson	Williams	Thirty-seventh	1	270
Pearson	Joseph	Thirty-ninth	1	339
Pearson	Thirty-sixth	Smith	1½	332
Pearson	Joseph	William	1½	654
Paulina	Forty-eighth	Forty-ninth	1½	672
Paulina	Forty-seventh	Forty-eighth	1½	667
Poplar avenue	Stearns	South	2	817
Robertson avenue	Hope avenue	Star avenue	1	190
Sangamon	Sixty-fourth	Sixty-fifth	1	666
Sangamon	Sixty-second	Sixty-third	1	678
Sangamon	Sixty-seventh	Sixty-eighth	1½	671
Sangamon	Sixty-third	Sixty-fourth	1½	664
Sixtieth	Carpenter	West	1	234
Sixtieth	Halsted	Winter	1½	621
Sixtieth	Morgan	Carpenter	1½	329
Sixtieth	Halsted	Morgan	1½	1,290
Sixty first	Winter	East	1	25
Sixty-first	Halsted	Winter	1½	625
Sixty-first	Center avenue	Aberdeen	2	665
Sixty-first	Halsted	Aberdeen	2½	1,950
Sixty-third	Sherman	Stewart avenue	2	1,535
Sixty-third	Center avenue	Aberdeen	2	668
Sixty-third	Halsted	Sherman	2½	1,070
Sixty-third	Halsted	Aberdeen	2½	2,000
Sixty-fifth	Aberdeen	Centre avenue	2	665
Sixty-fifth	Halsted	Aberdeen	2½	1,971
Sixty-sixth	Winter	Sherman	1	491
Seventy-third	Perry	Stewart avenue	2½	2,000
Seventy-third	Halsted	Stewart avenue	3	2,400
Seventy-sixth	Halsted	Morgan	1½	1,320

SOUTH DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Star avenue.....	Robertson avenue	South.....	1	720
Sacramento avenue	Joseph.....	Thirty-ninth.....	1	336
Sacramento avenue	Thirty-sixth	Smith.....	1½	352
Sherman.....	Sixty-third court.....	Sixty-fourth	1	339
School.....	370 ft. N. of Root.....	Fortieth.....	1	554
School.....	Forty-fifth	Forty-sixth.....	1	535
School.....	Thirty-ninth.....	Fortieth.....	1½	600
St. Lawrence avenue.....	Forty-seventh	Forty-ninth.....	1	1,331
St. Lawrence avenue.....	Sixty-sixth	Forty-seventh	1½	665
St. Lawrence avenue.....	Fiftieth.....	Fifty-first.....	2	665
St. Lawrence avenue.....	Forty-fifth.....	Forty-sixth.....	2	664
St. Lawrence avenue.....	Forty-ninth	Fiftieth.....	1½	664
School.....	Root.....	North.....	1½	370
School.....	Forty-third	Layton.....	1½	1,010
Sacramento avenue.....	Joseph.....	William.....	1½	654
Smith.....	Grant avenue	Pearson.....	1	2,671
Smith.....	Blanchard.....	Grant avenue.....	1½	665
Stewart avenue.....	Sixty-ninth	North.....	1½	75
Tracy avenue.....	Fifty-ninth	North.....	1	395
Tracy avenue.....	Fifty-sixth	Fifty-seventh	1½	370
Thirty-third	Wallace.....	Butler.....	1	635
Thirty-fourth.....	Lincoln.....	Wood.....	1	627
Thirty-fourth court.....	Lincoln.....	Wood.....	1	628
Thirty-fifth	Blanchard.....	California avenue	4	1,336
Thirty-fifth.....	Blanchard.....	Western avenue.....	4½	1,350
Thirty-sixth	California avenue	Grant avenue.....	1	666
Thirty-sixth.....	100 ft. E. of Ward	E. line of Hart avenue.....	1	369
Thirty-sixth	Grant avenue	Hart avenue.....	1½	1,265
Thirty-sixth.....	California avenue	Pearson.....	2	2,040
Thirty-eighth	California avenue	Grant avenue.....	1	674
Thirty-eighth	Grant avenue	Blanchard.....	1½	660
Thirty-eighth	California avenue	Pearson.....	2	2,040
Thirty-eighth	Archer avenue.....	Blanchard avenue.....	2	777
Thirty-ninth	California avenue	Grant avenue.....	1	682
Thirty-ninth	Hart avenue.....	Western avenue.....	1½	647
Thirty-ninth	Grant avenue.....	Blanchard avenue.....	1½	661
Thirty-ninth	Sacramento avenue.....	Pearson.....	1½	684
Thirty-ninth	Hart avenue.....	Blanchard avenue.....	2	661
Thirty-ninth	California avenue	Sacramento avenue.....	2	1,325
Throop.....	Forty-seventh	Forty-ninth.....	1½	1,303
Vincennes place.....	Vincennes avenue	Alley E. of Grand blvd.....	1½	470
Williams.....	California avenue	Grant avenue.....	1	676
Williams.....	Blanchard avenue.....	Grant avenue.....	1½	665
Williams.....	Sacramento avenue	Pearson.....	1	668
Ward.....	Thirty-ninth	Archer avenue.....	1	575
Ward.....	Thirty-fifth	Thirty-sixth.....	1½	670
Wharton avenue.....	Fifty-eighth.....	Fifty-ninth.....	1	629
Wharton avenue.....	Alley S. of Sixtieth	Sixty-third	1	1,760
Wharton avenue.....	S. of Fifty-sixth	Fifty-eighth	1½	809
Wharton avenue.....	Fifty-sixth.....	South.....	2	520
Wright.....	Thirty-ninth.....	Root.....	3	1,703
TOTAL.....				175,948

SEWERS CONSTRUCTED DURING THE YEAR 1891 IN NORTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Alley W. of Arlington..	Wilson.....	South	¾	140
Alley W. of Arlington..	Sunny Side avenue.	North	¾	430
Alley W. of Arlington..	Leland avenue.	Wilson avenue.	1	575
Alley W. of Arlington..	Leland avenue.	Lawrence avenue.	1½	650
Alley W. of Pemberton..	Leland avenue.	Lawrence avenue.	2	600
Alley W. of Pemberton..	Leland avenue.	Sunny Side avenue.	1½	1,365
Alley W. of Malden....	Lawrence avenue.	Leland	1	700
Alley W. of Malden....	Sunny Side avenue.	North	¾	580
Alley W. of Malden....	Leland avenue.	Wilson avenue.	¾	565
Alley W. of Beacon....	Lawrence avenue.	Wilson avenue.	¾	1,240
Alley W. of Beacon....	Sunny Side avenue.	North	¾	600
Alley W. of Dover....	Lawrence avenue.	Leland avenue.	1	660
Alley W. of Dover....	Leland avenue.	Wilson avenue.	¾	580
Alley W. of Dover....	Wilson avenue.	South	¾	500
Argyle	Linden avenue.	Southport avenue.	1	955
Argyle	Southport avenue.	North Clark.....	1½	900
Argyle	Evanston avenue.	Lincoln	1½	375
Aberdeen	Southport avenue.	East	1	910
Aberdeen	Southport avenue.	E. of Clark.	1	320
Aberdeen	Evanston avenue.	West	1½	420
Addison	Racine avenue.	East	1	520
Aldine	Evanston avenue.	East	1½	572
Aldine	572 ft E. of Evanston ave.	East	1	270
Belle Plaine avenue.	Ward	Lincoln avenue.	1	580
Belle Plaine avenue.	Robey	Lincoln avenue.	1½	660
Belle Plaine avenue.	Lincoln avenue.	Hoyne avenue.	1½	340
Belle Plaine avenue.	Hoyne avenue.	Leavitt	1	640
Berteau	Ward	Lincoln	1	580
Berteau	Robey	Lincoln	1½	660
Bitter Sweet place.	Halsted	East	1½	390
Bitter Sweet place.	390 ft. E. of Halsted.....	East	1	406
Belmont avenue.	Western avenue.	West	1½	574
Belmont avenue.	574 ft. W. of Western avenue ..	West	1	400
Berwyn avenue.	Southport avenue.	West	1	805
Balmoral avenue.	Southport avenue.	North Clark.	1½	960
Bosworth avenue.	Addison avenue.	Nellie avenue.	1½	685
Bryn Maur avenue.	Southport avenue.	North Clark.	2	1,055
Bryn Maur avenue.	Evanston avenue.	Southport avenue.	3½	1,325
Cuyler	Robey	Lincoln	1½	660
Cuyler	Wood	Lincoln	1	580
Cuyler	Hoyne avenue.	Leavitt	1	644
Cuyler	Lincoln avenue.	Hoyne avenue.	1½	945
Cherry	Blackhawk	Weed	1½	630
Clark	N. Fifty-ninth.	Balmoral avenue.	1	1,385
Dunning	Ward	Surrey court	1	365
Dunning	Southport avenue.	Ward	1½	332
Eddy	Herndon	West	1	484
Eddy	Racine	Seminary avenue.	1	698
Eddy	Racine	Herndon	1½	660
Evanston avenue.	N. Fifty-ninth.	Centre	2½	595
Evanston avenue.	Argyle	Centre	2	720
Forrest avenue.	Grand avenue.	North	1½	628
Forrest avenue.	Grand avenue.	Kemper avenue.	1½	566
Forrest avenue.	Kemper avenue.	Peterson avenue.	1	752
Fletcher	Southport avenue.	Perry	1	620
Farragut avenue.	Southport avenue.	West	1	824
Frank	Surf	Diversey avenue.	1	528

NORTH DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
N. Fifty-ninth	Southport avenue	North Clark	1½	1,020
N. Fifty-ninth	Evanston avenue	Southport avenue	3½	1,305
George	Southport avenue	Lincoln avenue	1	574
Grand avenue	Clark	Ridge avenue	3½	1,455
Grand avenue	Southport avenue	Clark	4	1,325
Grand avenue	Evanston avenue	Southport avenue	4½	1,085
Huron	St. Claire	East	1½	675
Illinois	Seneca	East	2	900
Jansen	Addison avenue	Nellie avenue	1½	635
Marquette terrace	Halsted	East	1	400
Meadow Lane avenue	Kemper avenue	Ridge avenue	1	505
Meadow Lane avenue	Grand avenue	North	1½	626
Meadow Lane avenue	Grand avenue	Kemper avenue	1½	565
Magnolia avenue	Berwyn avenue	Clarmont avenue	1	1,332
Magnolia avenue	N. Fifty-ninth	Berwyn avenue	1½	666
Magnolia avenue	Bryn Maur avenue	Clarmont avenue	1½	666
Newport avenue	490 ft. W. of Halsted	West	1	662
Newport avenue	Seminary avenue	East	1	487
Newport avenue	Halsted	West	1½	490
Newport avenue	Racine avenue	Seminary avenue	1½	660
North avenue	Dearborn avenue	East	1	234
North avenue	State	East	1½	547
Nelson	Racine avenue	Southport avenue	1	1,175
Noble avenue	Racine avenue	Perry avenue	1	1,750
Nellie avenue	Wilton avenue	West	1½	290
Olive court	Argyle	Rome avenue	1	295
Oakdale avenue	Racine avenue	Herndon	1	586
Olga	Grace	Nellie avenue	1	720
Osgood	290 ft. S. of Center	Poe	1	330
Perry	Fletcher	North	1	144
Perry	Fletcher	South	1	144
Perry	Addison avenue	Nellie avenue	1½	605
Ridge avenue	Grand avenue	North	1½	580
Roscoe	Southport avenue	Racine avenue	1	1,320
Sunny Side avenue	Alley W. of Pemberton	Alley W. of Beacon	1	1,120
Seminary avenue	Newport avenue	North	1	155
Seminary avenue	Centre	Maud avenue	1	660
Seminary avenue	Eddy	Cornelia	1	337
Summerdale avenue	Southport avenue	West	1	795
Southport avenue	Addison avenue	Nellie avenue	1½	635
Southport avenue	Centre	Argyle	2	660
Southport avenue	N. Fifty-ninth	Berwyn avenue	2½	670
Southport avenue	N. Fifty-ninth	Centre	2½	675
Southport avenue	Berwyn avenue	Balmoral avenue	2	680
Southport avenue	Addison avenue	Roscoe	1	1,330
Webber avenue	Forrest avenue	North Clark	1	424
Wilson	Alley W. of Pemberton	Alley W. of Dower	1	1,550
Wilton	Addison avenue	Nellie avenue	1	670
Warner avenue	Wood	Lincoln avenue	1	508
Warner avenue	Robey	Lincoln avenue	1½	660
Warner avenue	Robey	Leavitt	1	1,300
Wauban	Surf	North	1	335
Ward	Marianna	Alley W. of Wrightwood avenue	1	490
Ward	Diversey	Marianna	1½	660
Ward	Dunning	North	1	490
TOTAL				76,672

WING SEWERS BUILT IN THE YEAR 1891 IN THE WEST DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Ballou.....	Manhole in North avenue..	North	1½	60
Bismark	Manhole in Washtenaw ave.	East and west	1	84
Bismark	Manhole in Rockwell.....	West	1	38
N. S. Bloomingdale road	Manhole in Humboldt.....	East and west	1	84
N. S. Bloomingdale road	Manhole in Washtenaw ave.	East and west	1	86
N. S. Bloomingdale road	Manhole in Commercial ave.	East and west	1	78
N. S. Bloomingdale road	Manhole in Rockwell.....	East and west	1	76
N. S. Bloomingdale road	Manhole in Edgar.....	East and west	1	72
N. S. Bloomingdale road	Manhole in Seymour.....	East and west	1	86
S. S. Bloomingdale road	Manhole in Washtenaw ave.	East and west	1	84
S. S. Bloomingdale road	Manhole in Commercial ave.	East and west	1	78
S. S. Bloomingdale road	Manhole in Rockwell.....	East and west	1	76
S. S. Bloomingdale road	Manhole in Edgar.....	East and west	1	72
S. S. Bloomingdale road	Manhole in Seymour.....	East and west	1	84
Burchell	Manhole in Fullerton ave..	North	1½	56
Campbell avenue.....	Manhole in Ogden avenue..	North	1	46
Central Park avenue ..	Manhole in North avenue..	South	2	58
Central Park avenue ..	Manhole in North avenue..	North	1½	60
Cromwell	Manhole in Fullerton ave..	South	2	58
Clifton avenue.....	Manhole in Fullerton ave..	North	1½	58
California avenue.....	Manhole in Fullerton ave..	South	1½	58
California avenue.....	Manhole in Fullerton ave..	North	1½	53
Catalpa place	Manhole in Fullerton ave..	North and south	1½	118
Carroll avenue	Manhole in Francisco	East and west	1	66
Carroll avenue	Manhole in Sacramento ave.	East and west	1	86
Cross	Manhole in Colorado ave..	South	1	40
Cullerton court	Manhole in Washtenaw ave.	West	1	38
Chicago avenue.....	Manhole in Kedzie ave.....	East and west	1½	86
E. S. Congress Park ..	Manhole in Congress	North and south	1	72
W. S. Congress Park ..	Manhole in Congress	North and south	1	72
N. S. Douglas Park blvd	Manhole in California ave..	West	1½	44
N. S. Douglas Park blvd	Manhole in Kedzie avenue..	East and west	1½	80
S. S. Douglas Park blvd	Manhole in California ave..	West	1½	44
S. S. Douglas Park blvd	Manhole in Kedzie ave.....	West	1½	40
Elston avenue.....	Manhole in Diversey ave...	West	2½	40
Fourteenth.....	Manhole in Washtenaw ave.	East	1	38
Fairfield avenue.....	Manhole in Sixteenth	South	1½	40
Fairfield avenue.....	Manhole in Chicago ave...	North	1	56
Fifteenth	Manhole in Kedzie avenue..	West	2	44
Francisco	Manhole in Congress.....	North and south	1	72
Fulton	Manhole in Francisco	East and west	1	64
Fulton	Manhole in Columbia place.	East	1	44
Fairview avenue.....	Manhole in Fullerton ave..	North	1½	58
Forrest avenue	Manhole in Fullerton ave..	North	1½	66
Grand avenue	Manhole in Kedzie avenue..	Northwest	1½	44
Grand avenue	Manhole in Kedzie avenue..	Southeast.....	2	62
Genessee avenue	Manhole in Twelfth.....	South	1½	60
Homan avenue	Manhole in Jackson.....	North	1	48
Homan avenue.....	Manhole in Adams.....	North and south.....	1	92
Homan avenue.....	Manhole in Twelfth.....	North	1	48
Homan avenue.....	Manhole in North avenue..	North	1½	56
Homan avenue.....	Manhole in Monroe.....	North and south.....	1	90
Hancock avenue.....	Manhole in North avenue..	North.....	1½	58
Huron.....	Manhole in St. Louis ave..	East	1	42
Huron.....	Manhole in St. Louis ave..	West	1	44

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Huron.....	Manhole in Kedzie avenue.	East and west.....	1½	86
Humboldt.....	Manhole in Armitage ave.	North.....	1	36
Hamburg.....	Manhole in Leavitt.....	East.....	1	38
Hamburg.....	Manhole in Hoyne ave.....	East and west.....	1	84
Hoffman avenue.....	Manhole in Fullerton ave.....	North.....	1½	52
Hoffman avenue.....	Manhole in Fullerton ave.....	South.....	2	62
Hoyne avenue.....	Manhole in Eighteenth.....	South.....	1	40
Hoyne avenue.....	Manhole in Van Horn.....	South.....	1	44
Hastings.....	Manhole in Lincoln.....	West.....	1½	38
Kedzie avenue.....	Manhole in North avenue.....	South.....	1	56
Laughton.....	Manhole in California ave.....	East.....	1	40
Lincoln.....	Manhole in Ambrose.....	North and south.....	1	84
LeMoynes avenue.....	Manhole in Washtenaw ave.....	East and west.....	1	84
LeMoynes avenue.....	Manhole in Maplewood ave.....	East and west.....	1	78
LeMoynes avenue.....	Manhole in Rockwell.....	East and west.....	1	70
LeMoynes avenue.....	Manhole in Fairfield ave.....	East and west.....	1	80
Leavitt.....	Manhole in Wabansia ave.....	South.....	1	42
Linden.....	Manhole in Fullerton ave.....	East.....	1½	50
Linwood.....	Manhole in Richmond.....	East and west.....	1	80
Laurel avenue.....	Manhole in Fullerton ave.....	North.....	1½	52
Moore.....	Manhole in California ave.....	East.....	1	40
Moore.....	Manhole in Robey.....	East.....	1½	38
Mead.....	Manhole in North avenue.....	North.....	1½	58
Myrtle.....	Manhole in Fullerton ave.....	South.....	2	56
Myrtle.....	Manhole in Fullerton ave.....	North.....	1½	50
Maplewood avenue.....	Manhole in Fullerton ave.....	North.....	1½	66
Maplewood avenue.....	Manhole in Fifteenth.....	North.....	1	28
Millard avenue.....	Manhole in Twelfth.....	South.....	1½	58
Nineteenth.....	Manhole in Kedzie avenue.....	East.....	2	44
S. S. Ogden avenue.....	Manhole in Kedzie avenue.....	East.....	1½	40
N. S. Ogden avenue.....	Manhole in Kedzie avenue.....	East and west.....	1½	88
Ohio.....	Manhole in Kedzie avenue.....	East.....	3	53
Parmelee avenue.....	Manhole in California ave.....	East.....	1	40
Powell avenue.....	Manhole in Fullerton ave.....	South.....	2	64
Perry avenue.....	Manhole in Fullerton ave.....	North.....	2	64
Rosebud.....	Manhole in Wabansia ave.....	Northwest.....	1	52
Richmond avenue.....	Manhole in Milwaukee ave.....	North.....	1	44
Rockwell.....	Manhole in Superior.....	North.....	1	64
Rockwell.....	Manhole in Chicago ave.....	North.....	1	54
St. Louis avenue.....	Manhole in Twelfth.....	North.....	1	48
St. Louis avenue.....	Manhole in Adams.....	North and south.....	1	92
St. Louis avenue.....	Manhole in Colorado ave.....	North.....	1	40
St. Louis avenue.....	Manhole in North ave.....	South.....	2	56
St. Louis avenue.....	Manhole in Jackson.....	North and south.....	1	96
St. Louis avenue.....	Manhole in Monroe.....	North and south.....	1	92
Spaulding avenue.....	Manhole in Twelfth.....	North.....	1	48
Spaulding avenue.....	Manhole in Adams.....	North and south.....	1	92
Spaulding avenue.....	Manhole in Jackson.....	South.....	1½	48
Spaulding avenue.....	Manhole in Monroe.....	North and south.....	1	87
Sheridan avenue.....	Manhole in Fillmore.....	South.....	1	44
Sheridan avenue.....	Manhole in North ave.....	South.....	2	56
Sixteenth.....	Manhole in Wood.....	West.....	1	42
Thirteenth.....	Manhole in Kedzie avenue.....	West.....	2	46
Thirteenth.....	Manhole in Kedzie avenue.....	East.....	1½	42
Thirtieth.....	Manhole in Lawndale ave.....	East.....	1½	42

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Twenty-eighth	Manhole in Lawndale ave.	East	1	42
Twenty-eighth	Manhole in Lawndale ave.	West	1	40
Twenty-seventh	Manhole in Lawndale ave.	East	1	40
Twenty-seventh	Manhole in Millard avenue.	West	1	88
Twenty-fourth	Manhole in Bonney ave.	West	1	40
Twenty-fourth	Manhole in Hamlin ave.	West	1½	38
Twenty-fourth	Manhole in Hamlin ave.	East	1	38
Twenty-fourth	Manhole in Central Park avenue.	West	1	38
Twenty-fifth	Manhole in Bonney ave.	West	1	40
Twenty-fifth	Manhole in California ave.	West	2	42
Twenty-fifth	Manhole in Hamlin ave.	West	1½	40
Twenty-fifth	Manhole in Hamlin ave.	East	1	38
Twenty-fifth	Manhole in Central Park avenue.	West	1	38
Twenty-fifth place	Manhole in California ave.	West	2	44
Twenty-first	Manhole in Spaulding ave.	West	1	40
Twenty-first	Manhole in Kedzie avenue.	East	1½	40
Twenty-second	Manhole in Hamlin avenue.	West	2	42
Thomas avenue	Manhole in Fullerton ave.	North	1½	60
Thomas avenue	Manhole in Milwaukee ave.	North	1½	54
Thomas avenue	Manhole in Fullerton ave.	South	1½	56
Troy	Manhole in Jackson	South	1	48
Taylor	Manhole in Fairfield avenue	East and west	1	86
Trumbull avenue	Manhole in Colorado ave.	South	1	40
Utica	Manhole in Fillmore	South	1	38
Van Buren	Manhole in Central Park avenue	East	2	46
Van Horn	Manhole in Wood	West	1	42
Washtenaw avenue	Manhole in Fifteenth	North and south	1	88
Washtenaw avenue	Manhole in Sixteenth	North and south	1½	84
Washtenaw avenue	Manhole in Chicago avenue	North	1	56
Washtenaw avenue	Manhole in Congress	North	1	86
Washburn avenue	Manhole in Robey	East	1	40
Washburn avenue	Manhole in Washtenaw ave	East and west	1	84
Wabansia avenue	Manhole in Washtenaw ave	East and west	1	84
Wabansia avenue	Manhole in Seymour	East and west	1	84
Wabansia avenue	Manhole in Rockwell	East	1	44
Wabansia avenue	Manhole in Hoyne avenue.	East and west	1	76
Werder	Manhole in Washtenaw ave	East and west	1	80
Werder	Manhole in Rockwell	West	1	38
TOTAL				8,567

WING SEWERS BUILT IN THE YEAR 1891 IN THE SOUTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Alley E. of Calumet ave	Manhole in Forty-seventh.	North and south.....	1	70
Alley S. of Fifty-fifth.	Manhole in Ashland ave...	East.....	1½	46
Alley E. of Grand blvd.	Manhole in Forty-sixth.	North.....	1	38
Alley E. of Grand blvd.	Manhole in Forty-seventh.	North and south.....	1	70
Atlantic.....	Manhole in Forty-fifth.....	North and south.....	1	78
Atlantic.....	Manhole in Forty-third.	South.....	1½	42
Butler.....	Manhole in Thirty-ninth.	North.....	1	28
Concord.....	Manhole in Union.....	West.....	1	42
Emerald avenue.....	Manhole in Thirty-ninth.	North.....	2	28
Emerald avenue.....	Manhole in Thirty ninth.	South.....	1	28
Forty-first.....	Manhole in Wallace.....	West.....	1½	36
Forty-second.....	Manhole in Ashland avenue	West.....	1½	46
Forty-third.....	Manhole in Ashland avenue	East and west.....	2½	96
Forty-fourth.....	Manhole in Ashland avenue	West.....	1½	46
Forty-fifth.....	Manhole in Ashland avenue	East and west.....	2	100
Forty-sixth.....	Manhole in Ashland avenue	West.....	1½	46
Forty-ninth.....	Manhole in Ashland avenue	East and west.....	1½	94
Forty-ninth.....	Manhole in Forrestville ave	East and west.....	1	76
Forty-ninth.....	Manhole in St. Lawrence ave	East.....	1	38
Fiftieth.....	Manhole in Ashland ave...	East and west.....	2	98
Fiftieth.....	Manhole in Union.....	West.....	1	42
Fiftieth.....	Manhole in Forrestville ave	East and west.....	1	76
Fiftieth court.....	Manhole in Forrestville ave	East and west.....	1	76
Fiftieth court.....	Manhole in St. Lawrence ave	East.....	1	38
Fifty-first.....	Manhole in Ashland ave...	West.....	2½	48
Fifty second.....	Manhole in Ashland ave...	East and west.....	1½	96
Fifty-third.....	Manhole in Ashland ave...	East and west.....	2	96
Fifty-fourth.....	Manhole in Ashland ave...	East and west.....	2	96
Fifty-sixth.....	Manhole in Ashland ave...	East.....	2	48
Fifty-sixth.....	Manhole in Wabash avenue	East and west.....	1	114
Fifty-sixth.....	Manhole in Michigan ave.	East.....	1	56
Fifty-seventh.....	Manhole in Halsted.....	East.....	2	44
Fifty-seventh.....	Manhole in Ashland avenue	East.....	2	48
Fifty-seventh.....	Manhole in Wabash avenue	East and west.....	1	112
Fifty-seventh.....	Manhole in Michigan avenue	East.....	1	56
Fifty-eighth.....	Manhole in Ashland avenue	East.....	2	48
Fifty-eighth.....	Manhole in Wabash ave...	East and west.....	1	112
Fifty-eighth.....	Manhole in Michigan ave.	East.....	1	56
Fifty-ninth.....	Manhole in Wabash ave...	East and west.....	1	112
Fifty-ninth.....	Manhole in Michigan ave.	East.....	1	56
Green.....	Manhole in Thirty-ninth.	South.....	1	36
Gross avenue.....	Manhole in Ashland avenue	Northwest.....	1½	60
Huron.....	Manhole in Forty-third.	South.....	1½	42
Logan.....	Manhole in Union.....	East and west.....	1	76
Niagara.....	Manhole in Union.....	West.....	1	42
Portland avenue.....	Manhole in Thirty-ninth.	North.....	1½	36
Prairie avenue.....	Manhole in Forty-seventh.	North.....	1½	45
Sixtieth.....	Manhole in Michigan ave.	East and west.....	1	112
Sixtieth.....	Manhole in Wabash ave...	East and west.....	1	114
Sixty-first.....	Manhole in Wabash avenue	East and west.....	1	112
Sixty-first.....	Manhole in Michigan ave.	East.....	1	56
Sixty-second.....	Manhole in Wabash avenue	East and west.....	1	112
Sixty-fourth.....	Manhole in Halsted.....	West.....	1½	50
Sixty-fifth.....	Manhole in Halsted.....	West.....	2½	50
Sixty-sixth.....	Manhole in Halsted.....	West.....	1½	44

SOUTH DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Sixty-sixth.....	Manhole in Halsted.....	East.....	1½	44
Sixty-sixth court.....	Manhole in Halsted.....	East.....	1¼	44
Sixty-eighth.....	Manhole in Halsted.....	East and west.....	1¼	88
Stewart avenue.....	Manhole in Thirty-ninth..	North.....	1½	28
School.....	Manhole in Thirty-ninth..	South.....	1¼	38
Sherman.....	Manhole in Forty-third...	North.....	1	40
Stearns	Manhole in Quinn.....	East.....	1	88
Thirtieth	Manhole in Butler.....	East.....	1	88
Thirtieth	Manhole in Parnell avenue.	East.....	1	38
Thirty-second	Manhole in Dashiell	East and west.....	1	66
Thirty-second	Manhole in Shields.....	East.....	1	38
Thirty-third	Manhole in Dashiell	East and west.....	1	68
Thirty-third court ...	Manhole in Paulina	East and west....	1	72
Thirty-fourth.....	Manhole in Dashiell	West.....	1	34
Thirty-fourth.....	Manhole in Paulina	East and west.....	1	72
Thirty-eighth	Manhole in Dashiell	East and west.....	1	68
Thirty-eighth.....	Manhole in Paulina	East.....	1	38
Tracy avenue	Manhole in Forty-fifth....	North.....	1	40
Tracy avenue	Manhole in Forty-third...	South.....	1¼	42
Union avenue	Manhole in Chestnut.....	North and south....	1	70
Vincennes avenue	Manhole in Forty-seventh..	South.....	1¼	46
Wabash avenue	Manhole in Sixty-third...	North.....	1¼	30
Wabash avenue.....	Manhole in Forty-seventh..	North and south....	1¼	86
TOTAL .....	.....	.....	.....	4,729

WING SEWERS BUILT IN THE YEAR 1891 IN THE NORTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Astor.....	Manhole in North ave.....	South	1	34
Bosworth	Manhole in Addison avenue	North	1½	42
Herndon.....	Manhole in Addison avenue	North	1½	42
Herndon.....	Manhole in Addison avenue	South	2	44
Janssen avenue.....	Manhole in Addison avenue	North	1½	42
Kohlsaat.....	Manhole in Grace.....	South	1½	42
Lewis	Manhole in Addison avenue	North	1½	42
Mary	Manhole in Wolfram.....	North and south.....	1	86
Marquette	Manhole in Halsted.....	East.....	1	40
Perry.....	Manhole in Addison avenue	North	1½	42
Racine avenue	Manhole in Addison avenue	North	2	44
Southport avenue.....	Manhole in Addison avenue	North	1½	42
Stella	Manhole in Grace.....	North	1	42
Stella	Manhole in Grace.....	South	1½	42
Ward.....	Manhole in Addison avenue	North	1½	42
Wellington	Manhole in Southport ave.....	West	1	48
Woodside avenue.....	Manhole in Lincoln avenue	North	1½	88
TOTAL .....	.....	.....	.....	804

TOTAL LENGTH OF SEWERS CONSTRUCTED DURING
THE YEAR 1891.

DIVISIONS.	LENGTH IN FEET.	MILES.
West Division.....	288,765	54,690
South Division	190,677	34,219
North Division	77,476	14,674
GRAND TOTAL.....	546,918	108,583

MAN-HOLES AND CATCH-BASINS RAISED TO GRADE ON STREETS ORDERED IMPROVED WITH COST OF SAME
DURING THE YEAR 1891, AS FOLLOWS:

No.	DESCRIPTION OF WORK DONE.	Cement.	Brick.	Covers.			Straight Pipe.			C'r'd Pipe.		Slants Traps.		Boxes No. ft.	Cost.		TOTAL COST.
				Iron.	Wood	Mil- w'kec.	Small Iron.	9 in.	12 in.	15 in.	9 in.	9 in.	9 in.		Material, Bills, etc.	Labor and Teaming.	
3,872	Man-holes raised to grade...	3,997	1,066,750	904	949	9	87	4,188	8	10	262	10	17	2,248	\$30,801 41	\$35,852 30	\$66,153 71
8,680	Catch-basins raised to grade.																

AMOUNT EXPENDED FOR REPAIRS OF SEWERS, MAN-HOLES AND CATCH-BASINS, ALSO MAN-HOLE AND CATCH-BASIN COVERS DURING THE YEAR 1891, AS FOLLOWS:

No.	DESCRIPTION OF WORK DONE.	Cement.	Brick.	Covers.			Straight Pipe.					Curved Pipe.			Junctions.		Traps.	COST.		
				Iron.	Wood.	Small.	6 in.	9 in.	12 in.	15 in.	18 in.	6 in.	9 in.	12 in.	6x12	6x15		9 in.	Material, Bills, etc.	Labor and Teaming.	Total Cost
147	Man-holes repaired.....	182	44,000	15	41	9	72	313	118	46	22	4	74	12	14	2	10			
163	Catch-basins repaired.....																			
141	Feet of 6-in. drains repaired.....	5	3,000																	
894	Feet of 4-in. drains repaired.....	15	10,500																	
565	Feet of 12-in. sewer repaired.....	37	4,500																	
166	Feet of 16-in. sewer repaired.....	22	2,500																	
110	Feet of 18-in. sewer repaired.....	8	2,600																	
122	Feet of 2-ft. sewer repaired.....	20	6,400																	
210	Feet of 3-ft. sewer repaired.....	34	10,000																	
102	Feet of 5-ft. sewer repaired.....	54	27,000																	

DEPARTMENT OF PUBLIC WORKS.

SEWERS AND CATCH-BASINS CLEANED IN THE THREE DIVISIONS OF THE CITY DURING THE YEAR 1891.

METHOD.	SOUTH DIVISION.		WEST DIVISION.		NORTH DIVISION.		TOTAL.		Average Cost per 100 Feet.
	Feet Cleaned.	Cost.	Feet Cleaned.	Cost.	Feet Cleaned.	Cost.	Feet Cleaned.	Cost.	
Flushing.....	216,670	\$3,156 73	328,385	\$5,447 99	257,785	\$3,213 20	802,840	\$11,817 92	\$1 47
Iron Scraper.....	365,638	24,724 17	64,673	7,379 43	65,645	7,649 20	495,956	39,753 79	8 00
Wood Scraper.....	42,900	2,837 80	171,540	7,615 02	55,689	8,061 67	270,120	13,514 49	5 00
TOTAL.....	625,208	\$30,718 70	564,598	\$20,442 43	379,110	\$13,924 07	1,568,916	\$65,085 20	.....
Opening inlets to catch-basins, attending complaints, etc.....									
TOTAL.....							1,568,916	3,755 79	
							\$68,840 99		
Average Cost per Basin.									
Catch-basins cleaned.....	No. of	Cost.	No. of	Cost.	No. of	Cost.	No. of	Cost.	Average Cost per Basin.
	6,549	\$20,096 87	4,053	\$17,681 02	2,766	\$8,510 14	13,368	\$46,288 03	\$3 46
Cost of cleaning sewers and catch-basins.....									
							\$115,129 02		
Miscellaneous bills for repairs of tools, etc.....									
							8,491 42		
TOTAL COST OF CLEANING SEWERS AND CATCH-BASINS.....									
							\$128,620 44		

RECEIPTS IN THE HOUSE DRAIN DEPARTMENT DURING THE YEAR 1891.

DIVISIONS.	PERMITS ISSUED.							Receipts.
	18-inch.	15-inch.	12-inch.	9-inch.	6-inch.	Total.	Junc-tions.	
West	1	.....	1	47	2,711	2,760	20	\$14,559 28
South .....	.....	1	2	58	649	705	10	3,775 38
North .....	.....	.....	.....	27	117	144	6	850 00
Lake View.....	.....	.....	.....	5	1,278	1,278	6	6,819 50
Hyde Park. ....	.....	.....	.....	11	1,259	1,270	13	6,285 00
Town of Lake.....	.....	.....	.....	22	2,331	2,353	13	11,807 50
TOTALS.....	1	1	3	165	8,340	8,510	68	\$43,596 66
From licenses.....								1,429 75
Permits from Special Assessments, etc.								51,082 69
Total Receipts.....								\$96,109 10

NUMBER OF DRAINS PUT IN PLACE DURING THE YEAR 1891, UNDER SPECIAL ASSESSMENT.

DIVISIONS.	Total Number of Drains.	Total Length in Feet.	Total Cost.	Average Cost per Drain.	Average Length of Drain in Feet	Average Cost per Foot.
West	6,517	180,841	\$54,067 06	\$8 30	27.75	\$0.29.90
South.....	4,328	185,502	43,878 78	10 14	31.31	32.88
North.....	467	12,752	5,130 50	10 99	27.30	40.32
Rock Excavation.....	.....	.....	7,763 78	.....	.....	.....
TOTAL.....	11,312	329,095	\$110,840 12	\$9 08	29.10	\$0.33.68

Making a total of 62.33 miles of 6-inch drains laid by contract and paid for by Special Assessment.

During the past year the large main in West Fortieth street has been completed from the West fork of the South branch of the river to Kinzie street, and is under contract and will be completed early next season to Division. The main in North avenue has been extended west to Grand avenue.

Armitage avenue main has been extended from Kedzie avenue west to Columbia avenue.

Diversey avenue main has been built from the river west to Kedzie avenue.

Belmont avenue main has been finished west to Milwaukee avenue.

Thirty-fifth street main has been extended from Archer avenue west to California avenue.

Grand avenue sewer has been built from Western avenue northwest to Division street, except a short distance through the rock cutting near Rockwell street, which will be completed early next spring. The main sewer in South Halsted street has been finished to Eighty-fifth street. This street is now sewered from Lake Michigan on the north to Eighty-fifth street on the south, a distance of $15\frac{1}{4}$ miles.

Grand avenue (Lake View) sewer has been extended west to Ridge avenue.

I desire to express my thanks to you and all the other officers of the City Government for the uniform courtesy extended to me, officially and otherwise, during the past year.

Very respectfully yours,

O. H. CHENEY,

Superintendent Bureau of Sewers.

REPORT
OF THE
Bureau of Streets
CITY OF CHICAGO

BUREAU OF STREETS.

CHICAGO, January 1, 1892.

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR:—I have the honor to submit herewith the Sixteenth Annual Report of the Bureau of Streets, for the year ending December 31, 1891.

It embraces in detail a review of the work accomplished during the year under the supervision of this Bureau; also street railway extensions made by the several street railway companies; the work done by the various railroad companies under the ordinance of March 26, 1890, together with a report of the condition and repairs of street lamps within the city limits.

The amount paid contractors for street improvements by special assessment.....	\$ 3,558,297 10	
For sidewalks built by the Bureau under special assessment.....		68,217 44
For sweeping and cleaning improved streets by contract.....	\$ 147,598 07	
By Department.....	70,454 08	
		218,047 15
For repaving and repairing improved streets.....		317,314 21
For grading, ditching, building and repairing aprons, culverts, crossing, etc., on unimproved streets.....		267,809 66
For sidewalk intersections.....	\$ 45,433 94	
For sidewalks, general repairs.....	108,666 67	
		154,100 61
For city parks.....		8,462 83
For city hall operation and maintenance.....		83,541 22
For repairs on gas lamps, etc.....	\$ 27,939 04	
For repairs on gasoline lamps.....	6,659 17	
For erecting posts and signs.....	4,952 66	
		39,550 87
GRAND TOTAL.....	\$ 4,715,841 09	

The following tables show the progress in street and alley improvements, the character of pavement laid on each street, the total length in lineal feet and miles, as well as the surface measurement in square yards:

STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
Alley	Center to Webster ave.	Fremont to Bissell.....	Nov. 21, 1891
Alley	Erie to Huron.....	Wells to LaSalle.....	Oct. 29, 1891
Alley	Ohio to Ontario.....	Clark to LaSalle.....	Nov. 19, 1891
Alley	Center to Garfield ave.	Howe to Larrabee.....	Nov. 21, 1891
Alley	Clay to Center.....	Halsted to Dayton.....	Oct. 20, 1891
Alley	Lane place to Center...	Clark to Garfield.....	Sept. 25, 1891
Alley	Mohawk to Larrabee...	North avenue to Eugenie	Oct. 23, 1891
Alley	Willow to Clay.....	Dayton to Halsted.....	Oct. 20, 1891
Alley	Wisconsin to Center...	Hudson to Cleveland...	Aug. 12, 1891
Alley	Monomonee to Wisconsin	Hudson to Cleveland...	Aug. 10, 1891
Alley	Willow to Clay.....	Fremont to Dayton.....	July 20, 1891
Alley	Market to Franklin...	Ohio to Indiana.....	Aug. 14, 1891
Alley	Division to Division...	State, Elm, L. S. Drive.	July 25, 1891
Alley	Rush to Pine	Walton to Oak.....	July 17, 1891
Alley	Center to Garfield ave.	Larrabee to Mohawk...	July 22, 1891
Alley	Hobbie to Elm.....	Sedgwick to Townsend.	July 30, 1891
Alley	Wisconsin to Center...	Sedgwick to Hudson...	July 17, 1891
Alley	Michigan to Illinois...	Wells to LaSalle.....	July 27, 1891
Alley	Cass to Rush	Illinois to Indiana...	July 14, 1891
Alley	Goethe to Schiller...	Clark to LaSalle.....	May 30, 1891
Alley	Wisconsin to Center...	Larrabee to Mohawk...	May 8, 1891
Alley	Burton place to Schiller.	Astor to State.....	May 5, 1891
Alley	Elm to Division.....	State to Dearborn...	May 7, 1891
Alley	Hill to Elm.....	Franklin to Wells.....	Sept. 15, 1891
Addison avenue.....	Clark	Ashland avenue.....	Aug. 1, 1891
Addison avenue.....	Clark	Lake Michigan.....	July 1, 1891
Aldine.....	Evanston avenue.....	Lake Michigan.....	Sept. 17, 1891
*Arlington	Sunnyside avenue.....	Lawrence avenue.....	May 15, 1891
Ashland avenue.....	Belmont avenue.....	Graceland avenue.....	April 15, 1891
Ashland avenue.....	Graceland avenue.....	Sulzer	May 21, 1891
Bissell	Webster avenue.....	125 ft. south.....	June 22, 1891
Block	North avenue.....	Eugenie.....	May 15, 1891
*Balmoral avenue.....	Winthrop avenue.....	C. E. & L. R. R.....	.....
*Beacon	Sunnyside avenue.....	Lawrence avenue.....	Mar. 15, 1891
*Belle Plaine avenue.....	Wood	Robey	Aug. 1, 1891
*Belle Plaine avenue.....	Lincoln avenue.....	Leavitt	Aug. 1, 1891
*Berteau avenue.....	Wood	Robey	Aug. 1, 1891
*Belle Plaine avenue.....	Perry	Clark .....	.....
*Bittersweet place	Halsted.....	Lake Michigan.....	July 8, 1891
*Brompton avenue.....	Halsted.....	Evanston avenue.....	Aug. 4, 1891
*Buena Park terrace.....	Hazel.....	Evanston avenue.....	July 8, 1891
*Burling	Wrightwood avenue.....	Dewey court.....	.....
Cooper	Clybourn avenue.....	Fullerton avenue.....	Oct. 20, 1891
*Catalpa.....	Perry	Southport avenue.....	.....
*Clarence avenue.....	Grace.....	Byron.....	.....
Cornelia	Halsted.....	Lake Michigan.....	Aug. 1, 1891
*Cuyler avenue.....	Wood.....	Robey.....	Aug. 1, 1891
*Cuyler avenue.....	Lincoln avenue.....	Leavitt	Aug. 1, 1891

*Private Contract.

STREET DEPARTMENT.

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NORTH DIVISION, 1891.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Nov. 26, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	1,388.74	912.78
Nov. 3, 1891	J. V. McAdam.....	W. C. G. Cedar blocks	316.49	203.46
Nov. 24, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	672.52	535.00
Dec. 7, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	1,010.46	598.30
Oct. 28, 1891	P. Farrell.....	W. C. G. Cedar blocks	1,842.80	728.00
Dec. 4, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	551.53	413.81
Oct. 27, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	1,478.09	745.00
Oct. 28, 1891	P. Farrell.....	W. C. G. Cedar blocks	1,420.38	751.96
Aug. 27, 1891	P. Farrell.....	W. C. G. Cedar blocks	1,092.50	595.91
Aug. 25, 1891	P. Farrell.....	W. C. G. Cedar blocks	1,110.70	595.00
Aug. 26, 1891	R. F. Conway.....	W. C. G. Cedar blocks	1,640.26	877.00
Aug. 23, 1891	J. B. Smith & Co.....	W. C. G. Cedar blocks	627.32	326.34
Aug. 5, 1891	R. F. Conway.....	W. C. G. Cedar blocks	1,513.17	876.00
Aug. 5, 1891	P. Farrell.....	W. C. G. Cedar blocks	801.99	771.04
Aug. 4, 1891	R. F. Conway.....	W. C. G. Cedar blocks	1,021.94	597.34
Aug. 13, 1891	P. Farrell.....	W. C. G. Cedar blocks	657.90	379.56
Aug. 8, 1891	R. F. Conway.....	W. C. G. Cedar blocks	1,188.49	595.72
July 29, 1891	P. Farrell.....	W. C. G. Cedar blocks	569.18	417.70
July 16, 1891	A. J. McBean.....	W. C. G. Cedar blocks	585.01	300.00
June 8, 1891	Garden City Paving & Post Co.	W. C. G. Cedar blocks	1,468.00	665.00
May 12, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	774.18	595.52
May 11, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	980.57	554.00
May 9, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	450.64	281.65
Sept. 18, 1891	Talbot Paving Co.....	W. C. G. Cedar blocks	357.32	218.79
Sept. 10, 1891	J. B. Smith & Co.....	C. C. Cedar blocks...	17,159.70	8,516.50
Aug. 17, 1891	C. B. Parsons.....	C. C. F. Macadam...	13,616.80	3,404.20
Unfinished.	O. Vider & Co.....	C. C. F. Macadam...	2,810.00	848.00
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,791.11	1,910.00
June 30, 1891	Garden City Paving & Post Co.	C. C. Cedar blocks...	15,496.70	6,389.50
June 20, 1891	J. J. Duffy & Co.....	C. C. Cedar blocks...	11,451.30	2,715.00
July 18, 1891	J. B. Smith & Co.....	C. G. Cedar blocks...	526.21	140.80
June 23, 1891	J. B. Smith & Co.....	C. G. Cedar blocks...	1,848.05	604.37
.....	Dolese & Shepard.....	C. C. Macadam.....	500.00	150.00
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,755.56	1,900.00
Aug. 26, 1891	Dolese & Shepard.....	C. Macadam.....	2,262.34	1,204.80
Aug. 26, 1891	John Sackley.....	G. Macadam.....	1,842.00	921.00
Aug. 26, 1891	Dolese & Shepard.....	C. Macadam.....	2,399.25	1,233.90
.....	Graceland Cemetery Co.....	G. Macadam.....	3,240.00	972.00
Aug. 24, 1891	Alexander, Hill & Dunlap.....	C. C. Macadam.....	2,500.00	750.00
Sept. 22, 1891	C. M. Netterstrom.....	C. Macadam.....	2,156.67	647.00
July 20, 1891	C. M. Netterstrom.....	C. Macadam.....	1,357.78	470.00
.....	Garden City Paving & Post Co.	Com. Walk and Curb.....	.....	1,696.00
Oct. 28, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	1,774.75	532.42
.....	Graceland Cemetery Co.....	G. Macadam.....	2,772.00	831.60
.....	McDougall & Hammond.....	W. C. C. Macadam...	1,616.67	485.00
Sept. 15, 1891	O. Vider & Co.....	C. C. F. Macadam.....	6,548.00	1,798.00
Aug. 26, 1891	Dolese & Shepard.....	C. Macadam.....	2,343.65	1,205.30
Aug. 26, 1891	John Sackley.....	G. Macadam.....	2,152.00	1,076.00

STREETS IMPROVED, NORTH

NAME OF STREET.	FROM	TO	COMMENCED.
Claremont avenue.....	Magnolia avenue.....	Evanston avenue.....	
*Dover	Sunnyside avenue.....	Lawrence avenue.....	Mar. 15, 1891
Eastwood avenue.....	Sheffield avenue.....	Halsted.....	Sept. 16, 1891
Elaine place.....	Roscoe.....	Cornelia.....	Mar. 1, 1891
*Evanston avenue	North Fifty-ninth.....	Bryn Mawr avenue.....	Aug. 27, 1891
Fremont	Bissell.....	Willow.....	Aug. 1, 1891
Grace	Clark.....	Lake Michigan.....	Sept. 1, 1890
*Grand avenue	C. E. & L. S. R. R.....	Sheffield avenue.....	
*Glenlake avenue.....	Winthrop avenue.....	Alley E. of Sheffield avenue.....	
*Huron.....	St. Clair.....	600 ft. east.....	Dec. 1, 1891
Hull.....	Eugenie.....	Menomonee.....	April 1, 1891
Hein	Sedgwick.....	Cleveland avenue.....	April 25, 1891
High	Fullerton avenue.....	Webster avenue	Aug. 29, 1891
Halsted	Evanston avenue.....	Sulzer.....	July 28, 1891
Jay.....	Center	Garfield avenue.....	July 2, 1891
Jay.....	Garfield avenue.....	Webster avenue.....	July 3, 1891
Jay.....	Webster avenue.....	Fullerton avenue.....	July 1, 1891
Kemper place	Orchard.....	Larrabee.....	Nov. 4, 1891
Kenmore avenue.....	Lawrence.....	Ainslie.....	Oct. 1, 1891
*Kenmore avenue	Thorndale avenue.....	Grand avenue.....	
Lewis	Clybourn avenue.....	Belden avenue.....	Aug. 18, 1891
Locust.....	Market.....	Townsend.....	June 28, 1891
*Leland avenue.....	Clark.....	Pemberton avenue.....	Mar. 15, 1891
Lill avenue.....	Halsted.....	Lincoln avenue.....	July 18, 1891
Lincoln avenue.....	Belmont avenue.....	Addison avenue.....	May 15, 1891
*Lincoln.....	Graceland avenue.....	Berteau avenue.....	Aug. 1, 1891
*Linden place.....	Wrightwood avenue.....	Dunning court.....	May 20, 1891
*Magnolia	Balmoral avenue.....	Bryn Mawr avenue.....	
*Malden.....	Sunnyside.....	Lawrence avenue.....	Mar. 15, 1891
*Marquette terrace.....	Halsted.....	Lake Michigan.....	Dec. 14, 1891
Melrose	Evanston avenue.....	Lake Michigan.....	Sept. 23, 1891
Michigan	Rush (Contract 24 ft.)..	Clark.....	Oct. 23, 1891
Michigan	Rush (11 ft. adj. curb)..	Clark.....	Oct. 23, 1891
Michigan	Rush.....	St. Clair.....	May 9, 1891
Moore	Elm.....	Division.....	June 18, 1891
*N. Water	LaSalle.....	Alley West.....	Sept. 24, 1891
*Nellie avenue.....	Sheffield avenue.....	Rockeby.....	May 27, 1891
Noble avenue.....	Sheffield avenue.....	Clark.....	July 8, 1891
Ohio	Clark.....	St. Clair.....	Sept. 16, 1891
Ontario	Clark.....	St. Clair.....	Oct. 16, 1891
Ontario	Franklin.....	Kingsbury.....	May 20, 1891
*Oakdale avenue	Sheffield avenue.....	Halsted.....	Oct. 1, 1891
Otto	Paulina.....	Wood.....	Aug. 8, 1891
Racine avenue.....	Diversey avenue.....	Belmont avenue.....	Sept. 1, 1891
Racine avenue.....	Belmont avenue.....	Roscoe.....	Sept. 15, 1891
Robey	Belmont avenue.....	Roscoe.....	Oct. 1, 1891
*Rokeby.....	Addison avenue.....	Cornelia.....	July 1, 1891
Rokeby.....	Addison avenue.....	Nellie.....	July 1, 1891

*Private Contract.

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
.....	Dolese & Shepard.....	C. C. Macadam.....	1,000.00	300.00
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,844.44	1,925.00
Unfinished.	Sackley & Peterson.....	C. C. F. Macadam.....	4,245.33	1,273.60
May 18, 1891	C. B. Parsons.....	C. F. Macadam.....	2,485.60	621.40
Sept. 28, 1891	Dolese & Shepard.....	Macadam repaving.....	8,666.67	2,600.00
Aug. 3, 1891	R. F. Conway.....	W. C. F. Cedar blocks	1,058.40	264.60
Aug. 20, 1891	James Lyman & Co.....	C. C. F. Macadam.....	16,023.00	4,233.10
.....	Dolese & Shepard.....	C. C. Macadam.....	3,040.00	912.00
.....	Dolese & Shepard.....	C. C. Macadam.....	1,820.00	546.00
Dec. 11, 1891	O. Vider & Co.....	C. G. Cedar blocks.....	2,266.67	600.00
May 21, 1891	J. J. Duffy & Co.....	C. G. Cedar blocks.....	1,322.68	595.20
Sept. 15, 1891	Talbot Paving Co.....	C. F. Cedar blocks.....	1,121.90	644.00
Sept. 30, 1891	J. V. McAdam.....	C. F. Cedar blocks.....	5,319.71	1,259.93
Sept. 26, 1891	J. Lyman & Co.....	C. C. Macadam.....	12,470.20	2,830.70
July 29, 1891	J. V. McAdam.....	C. G. Cedar blocks.....	2,039.31	611.79
July 29, 1891	J. V. McAdam.....	C. G. Cedar blocks.....	2,044.16	613.25
July 16, 1891	A. J. McBean.....	C. G. Cedar blocks.....	4,066.08	1,219.82
Nov. 12, 1891	O. Vider & Co.....	C. G. Cedar blocks.....	1,714.31	674.86
Unfinished.	James Lyman & Co.....	C. C. F. Macadam.....	3,171.33	951.40
.....	Dolese & Shepard.....	C. C. Macadam.....	5,260.00	1,578.00
Aug. 25, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks.....	7,897.17	1,870.38
July 25, 1891	A. J. McBean.....	C. G. Cedar blocks.....	2,684.05	630.72
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,471.11	1,820.00
July 21, 1891	J. B. Smith & Co.....	C. C. Cedar blocks.....	3,107.40	932.22
June 12, 1891	A. J. McBean.....	W. C. C. Cedar blocks	14,969.79	3,214.17
Aug. 26, 1891	Dolese & Shepard.....	C. Macadam.....	2,425.74	1,226.50
May 25, 1891	O. Vider & Co.....	C. F. Cedar blocks.....	1,740.74	522.22
.....	Dolese & Shepard.....	C. C. Macadam.....	4,220.00	1,266.00
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,755.56	1,900.00
Unfinished.	Kimbell-Cobb Stone Co.....	C. C. Macadam.....	1,166.67	350.00
Unfinished.	O. Vider & Co.....	C. C. F. Macadam.....	3,595.33	1,078.60
Nov. 6, 1891	R. F. Conway.....	G. Cedar blocks.....	3,821.99	1,433.25
Nov. 6, 1891	R. F. Conway.....	C. G. Cedar blocks.....	3,821.87	1,553.46
May 25, 1891	R. F. Conway.....	C. G. Cedar blocks.....	3,561.15	696.74
July 15, 1891	O. Vider & Co.....	C. G. Cedar blocks.....	887.82	285.37
Sept. 25, 1891	J. B. Smith & Co.....	G. Cedar blocks.....	619.53	258.00
May 30, 1891	Alexander, Hill & Dunlap.....	Curbing.....	.....	672.80
July 11, 1891	O. Vider & Co.....	C. C. Cedar blocks.....	4,323.00	1,296.90
Oct. 20, 1891	Western Paving & Supply Co.	C. G. Asphalt.....	9,157.83	2,423.07
Nov. 16, 1891	Western Paving & Supply Co.	C. G. Asphalt.....	9,173.76	2,435.51
June 1, 1891	J. J. Duffy & Co.....	C. W. G. Cedar blocks	6,087.21	1,304.40
May 1, 1891	Chas. B. Parsons.....	C. C. Macadam.....	4,453.33	1,336.00
Sept. 26, 1891	Jas. Lyman & Co.....	W. C. C. Macadam.....	3,340.80	1,366.70
Sept. 16, 1891	A. J. McBean & Co.....	C. C. Cedar blocks.....	14,674.20	2,751.40
Oct. 26, 1891	J. B. Smith & Co.....	C. C. Cedar blocks.....	5,300.00	1,255.30
Oct. 22, 1891	J. B. Smith & Co.....	C. C. Cedar blocks.....	3,803.00	1,255.80
July 31, 1891	Dolese & Shepard.....	W. C. C. & Macadam.	2,070.00	621.00
July 31, 1891	Alexander, Hill & Dunlap.....	Curbing.....	.....	662.00

STREETS IMPROVED, NORTH

NAME OF STREET.	FROM	TO	COMMENCED.
*St. Michael's court.....	North avenue.....	Eugenie.....	Sept. 14, 1891
State	Division.....	North avenue.....	May 8, 1891
Shaughnessy	Goethe.....	Sigel.....	Aug. 15, 1891
Superior	Franklin	Kingsbury.....	April 27, 1891
Sheffield avenue	Graceland avenue.....	Evanston avenue.....	Aug. 8, 1891
*Sheffield avenue	Addison avenue.....	Nellie avenue.....	July 1, 1891
*Southport avenue.....	Graceland avenue.....	Clark.....	.....
*Thorndale avenue.....	Winthrop avenue.....	Alley E. of Sheffield avenue.....	.....
*Warner avenue	Robey.....	Wood.....	Aug. 1, 1891
*Warner avenue	Robey.....	Leavitt.....	Aug. 1, 1891
*Wilton avenue.....	Addison avenue.....	Nellie avenue.....	July 1, 1891
*Wilton avenue.....	Addison avenue.....	Cornelia	July 1, 1891
*Windett avenue.....	Sheffield avenue.....	Halsted.....	Sept. 21, 1891
Windsor	Sheffield avenue.....	Halsted.....	May 1, 1891
Wolfram	Halsted.....	Racine avenue.....	Oct. 1, 1891
Wrightwood avenue.....	Racine avenue.....	C. E. & L. S. R. R.....	April 1, 1891
*Winthrop avenue	Thorndale avenue.....	Grand avenue.....
Vine.....	Vedder.....	Rees.....	April 1, 1891

*Private Contract.

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Sept. 21, 1891	O. Vider & Co.	C. G. Cedar blocks ...	1,200.00	600.00
June 12, 1891	Western Paving & Supply Co. .	C. G. Asphalt.	9,807.28	2,749.70
Aug. 1891	P. Farrell.	C. G. Cedar blocks ...	784.01	299.50
May 2, 1891	J. B. Smith & Co.	C. G. Cedar blocks ...	7,567.84	1,483.79
Oct. 1, 1891	C. B. Parsons.	C. Macadam, repairing	10,813.30	2,320.50
July 4, 1891	Alexander, Hill & Dunlap. .	Curbing.		662.00
	Graceland Cemetery Co.	C. Macadam.	4,264.44	1,010.00
	Dolese & Shepard.	C. C. Macadam.	1,820.00	546.00
Aug. 26, 1891	Dolese & Shepard.	C. Macadam.	2,320.12	1,207.00
Aug. 26, 1891	John Sackley.	G. Macadam.	2,362.80	1,181.40
July 31, 1891	Alexander, Hill & Dunlap. .	C. F. Macadam.	2,005.33	601.60
July 31, 1891	Dolese & Shepard.	W. C. C. Macadam ..	2,076.67	623.00
Dec. 31, 1891	C. M. Netterstrom.	C. C. Macadam.	4,191.00	1,257.30
Aug. 24, 1891	O. Vider & Co.	C. C. F. Macadam. ...	4,283.00	1,284.90
Nov. 2, 1891	J. B. Smith & Co.	C. C. Cedar blocks ...	9,476.70	2,665.30
May 22, 1891	A. J. McBean.	C. C. Cedar blocks ...	2,782.36	659.00
	Dolese & Shepard.	C. C. Macadam.	5,260.00	1,578.00
April 28, 1891	O. Vider & Co.	W. C. & F.		434.60
TOTALS			418,953.91	130,717.92

Lineal feet paving126,590.52 feet, or 23.97 miles.

Unpaved streets, lineal feet curbing..... 4,127.40 feet, or 0.78 miles.

GRAND TOTALS130,717.92 feet, or 24.75 miles.

STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
*Alley	LaSalle to Fifth avenue.	Randolph to Washington	July 25, 1891
Alley	Twenty-second to Twenty-third.	Calumet to So. Park avenue.	May 17, 1891
Alley	Twentieth to Twenty-first.	Indiana avenue to Prairie avenue	June 11, 1891
Alley	Thirty-fourth to Thirty-fifth.	So. Park avenue to Vernon avenue	June 27, 1891
Alley	Twenty-fourth to Twenty-fifth.	Indiana avenue to Prairie avenue.	May 23, 1891
Alley	Twenty-ninth to Thirty-third.	State to Dearborn.	June 7, 1891
Alley	Spring to Twenty-ninth.	State to Dearborn.	May 27, 1891
Alley	Thirty-fifth to Thirty-seventh.	Indiana avenue to Prairie avenue.	July 30, 1891
Alley	Thirty-third to Thirty-fourth.	Michigan avenue to Indiana avenue	May 26, 1891
Alley, N. and S.	Thirty-third to E&W of Thirty-fifth	Calumet avenue to So. Park avenue	May 24, 1891
Alley	Twenty-fifth to Twenty-sixth.	Indiana avenue to Prairie avenue.	Aug. 1, 1891
Alley	Thirtieth to Thirty-first.	Cottage Grove to Vernon avenue.	June 29, 1891
Alley	Thirty-second to Thirty-third.	Prairie avenue to Forest avenue.	Aug. 28, 1891
Alley	Twenty-fifth to Twenty-sixth.	State to Dearborn.	Sept. 9, 1891
Alley	Thirty-first to Thirty-second.	Indiana avenue to Prairie avenue.	Oct. 29, 1891
Alley	Twenty-third to Twenty-fourth.	Wabash avenue to Michigan avenue	Sept. 8, 1891
Alley	Thirty-fourth to Thirty-fifth.	Michigan avenue to Indiana avenue	Oct. 28, 1891
Alley	Twenty-third to Twenty-fourth.	State to Dearborn.	Oct. 2, 1891
Alley	Twenty-sixth to Twenty-ninth.	Calumet avenue to So. Park avenue	Dec. 11, 1891
Alley	Vincennes ave. to St. Lawrence.	Forty-first to Bowen avenue.	June 12, 1891
Alley	Thirty-first to Thirty-second.	Lake avenue to Groveland avenue.	April 28, 1891
*Anthony avenue	Seventy-ninth.	Eightieth.	July 1, 1891
*Adams avenue.	Seventy-ninth.	Eighty-first.	July 1, 1891
*Adams avenue.	Eighty-first.	Eighty-third.	July 1, 1891
Armour avenue	Thirty-ninth.	Root.	July 16, 1891
Ashland avenue.	Thirty-ninth.	Fifty-fifth.	Unfinished.
Ashland avenue.	Fifty-fifth.	Fifty-ninth.	Unfinished.
*Benton place	State	Randolph.	Sept. 1, 1891
Bonfield	Archer avenue.	Hickory.	Oct. 29, 1891
Broad	Archer avenue.	Thirty-first.	Aug. 4, 1891
Buffalo avenue.	Eighty-seventh.	Ninety-second.	Mar. 18, 1891
*Butler	Hundred and eleventh.	Hundred and fifteenth.	
*Calumet avenue	Forty-second.	Forty-third.	Nov. 15, 1890
Commercial avenue	Ninetieth.	Ninety-second.	Sept. 20, 1890
Commercial avenue	Eighty-seventh.	Ninetieth.	Sept. 20, 1890
Cottage Grove avenue.	Oakenwald boulevard.	Forty-fourth.	May 14, 1891
*Calhoun place	LaSalle.	Clark.	May 20, 1891
*Calhoun place.	LaSalle.	Fifth avenue.	Oct. 6, 1891
Chestnut.	Halsted.	Wallace.	July 7, 1891
*Carpenter.	Fifty-fourth.	Fifty-fifth.	
Dashiel	Thirty-first.	Thirty-ninth.	May 25, 1891
Dearborn	Sixteenth.	St. Charles Air Line.	June 6, 1891
Drexel avenue.	Fifty-fifth.	Fifty-ninth.	Aug. 20, 1891
Dearborn	Thirty-ninth.	Root.	May 15, 1891
Dickey	Sixty-ninth.	Seventy-second.	Unfinished.
Earl	Shields avenue.	Stewart avenue.	Sept. 30, 1891
*East End avenue	Fifty-first.	110 ft. north.	Oct. 1, 1891
Ellis avenue.	Fifty-fifth.	Fifty-sixth.	Nov. 24, 1891

*Private Contract.

STREET DEPARTMENT.

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SOUTH DIVISION, 1891.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
July 26, 1891	J. B. Smith & Co.	G. Cedar blocks	250.00	125.00
May 24, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks	1,153.81	598.00
June 13, 1891	W. F. Hair	C. G. Cedar blocks	785.97	374.00
June 29, 1891	R. F. Conway	C. G. Cedar blocks	1,135.23	580.50
May 29, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks	1,035.30	598.00
June 11, 1891	R. F. Conway	C. G. Cedar blocks	3,600.78	2,314.79
May 27, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks	1,626.28	1,041.20
July 31, 1891	R. F. Conway	C. G. Cedar blocks	2,413.59	1,385.80
June 3, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks	1,292.41	596.50
June 5, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks	1,761.56	1,093.60
Aug. 2, 1891	R. F. Conway	C. G. Cedar blocks	1,081.92	599.60
June 30, 1891	R. F. Conway	C. G. Cedar blocks	1,869.00	914.80
Aug. 29, 1891	A. J. McBean & Co.	C. G. Cedar blocks	699.94	449.96
Sept. 10, 1891	Farrell, Luck & Co.	C. G. Cedar blocks	895.03	601.14
Oct. 30, 1891	John V. McAdam	C. G. Cedar blocks	919.18	608.28
Sept. 9, 1891	Farrell, Luck & Co.	C. G. Cedar blocks	1,135.50	567.75
Oct. 29, 1891	John V. McAdam	C. G. Cedar blocks	1,297.75	602.05
Oct. 4, 1891	Patrick Farrell	C. C. Cedar blocks	790.20	487.11
Dec. 19, 1891	O. Vider & Co.	C. G. Cedar blocks	2,567.35	1,460.83
June 16, 1891	W. F. Hair	W. C. G. Cedar blocks	963.55	558.00
May 9, 1891	Garden City Paving & Post Co.	C. Cedar blocks	1,082.75	715.00
Dec. 31, 1891	Dolese & Shepard	G. Macadam	1,529.00	860.00
Dec. 31, 1891	Dolese & Shepard	P. Macadam	2,169.00	1,220.00
Dec. 31, 1891	Dolese & Shepard	W. C. Macadam	4,496.00	1,190.00
Aug. 23, 1891	R. F. Conway	S. C. F. Cedar blocks	6,575.00	1,515.00
Unfinished.	O. Vider & Co.	S. C. F. Cedar blocks	43,000.00	10,280.00
Unfinished.	R. F. Conway	S. C. F. Cedar blocks	.....	2,500.00
Sept. 12, 1891	J. L. Fulton & Co.	G. Asphalt	897.00	310.00
Oct. 31, 1891	R. F. Conway	C. W. Cedar blocks	2,835.00	708.95
Aug. 4, 1891	J. B. Smith & Co.	C. W. Cedar blocks	2,955.32	699.90
June 30, 1891	Robert Herzog	F. P. Macadam	6,284.00	3,142.00
.....	Eggleston, Mallette & Brownell	P. Macadam	8,033.00	2,582.00
June 30, 1891	Eggleston, Mallette & Brownell	S. C. Macadam	2,304.00	610.00
May 9, 1891	Robert Hertzog	G. Wall F. Cedar blocks	6,793.00	1,292.00
May 16, 1891	J. B. Smith & Co.	G. Wall F. P. Cedar blocks	10,108.35	1,965.00
Aug. 22, 1891	J. B. Smith & Co.	S. C. P. Cedar blocks	8,862.65	2,611.80
June 1, 1891	J. L. Fulton & Co.	G. P. Asphalt	400.00	200.00
Nov. 10, 1891	J. L. Fulton & Co.	G. P. Asphalt	640.00	320.00
Sept. 22, 1891	Sackley & Peterson	S. C. F. P. Macadam	4,400.00	1,325.00
.....	C. B. Parsons	S. C. F. P. Macadam	2,020.00	606.00
June 15, 1891	J. B. Smith & Co.	G. Wall P. Cedar blocks	22,361.85	5,296.23
June 8, 1891	J. J. Duffy	S. C. Repair, Cedar block P.	570.02	135.00
Almost complete.	Kimbell-Cobb Stone Co.	S. C. G. P. Macadam	13,280.00	2,490.00
Aug. 16, 1891	R. F. Conway	S. C. Cedar blocks	5,620.00	1,515.00
Unfinished.	Eggleston, Mallette & Brownell	S. C. F. P. Macadam	4,300.00	1,950.00
Oct. 1, 1891	Patrick Farrell	S. C. Cedar blocks	723.64	232.60
Dec. 31, 1891	Dolese & Shepard	S. C. Macadam	481.00	110.00
Dec. 28, 1891	C. B. Parsons	W. C. Macadam	2,368.67	608.00

STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Ellis avenue.....	Sixtieth.....	Sixty-third... ..	Sept. 28, 1891
Exchange avenue.....	Eighty-seventh.....	Ninety-second.....	Oct. 28, 1891
*Eightieth.....	Stony Island avenue.....	Madison avenue.....	July 1, 1891
*Eighty-first.....	Stony Island avenue.....	Madison avenue.....	July 1, 1891
*Eighty-second.....	Stony Island avenue.....	Woodlawn avenue.....	July 1, 1891
*N. $\frac{1}{2}$ Eighty-third.....	Stony Island avenue.....	Madison avenue.....	July 1, 1891
Egan avenue.....	Wentworth avenue.....	Halsted.....	.....
*Emerald avenue.....	Fifty-fifth.....	Fifty-sixth.....	.....
Emerald avenue.....	Thirty-ninth.....	Forty-seventh.....	.....
Fuller.....	Archer avenue.....	Cologne.....	June 28, 1890
Fifth avenue.....	Thirty-fifth.....	Thirty-seventh.....	Sept. 3, 1891
Fifth avenue.....	Harrison.....	Polk.....	Dec. 17, 1891
*Fifth avenue.....	Harrison.....	Polk.....	.....
Forty-sixth.....	Drexel boulevard.....	Grand Boulevard.....	Oct. 6, 1891
Forty-fourth.....	Drexel boulevard.....	Ellis avenue.....	May 14, 1891
Forty-fourth.....	Cottage Grove avenue.....	St. Lawrence avenue.....	July 15, 1891
Forty-third.....	State.....	I. C. R. R.....	April 25, 1891
Forty-second.....	Oakenwald avenue.....	Drexel Boulevard.....	May 30, 1891
Forty-fifth.....	State.....	Grand Boulevard.....	July 13, 1891
Forty-second.....	Vincennes avenue.....	Grand Boulevard.....	Aug. 25, 1891
Fifty-fourth place.....	Lake avenue.....	Madison avenue.....	Nov. 17, 1891
Fifty-first.....	East End avenue.....	Drexel Boulevard.....	May 15, 1891
Fifty-fifth.....	Lake avenue.....	Cottage Grove avenue.....	Aug. 6, 1891
Forrestville avenue.....	Forty-eighth.....	Fifty-first.....	Oct. 16, 1891
*Fifty-fifth.....	Cornell avenue.....	Everett avenue.....	July 16, 1891
*Forty-second.....	Grand boulevard.....	Calumet avenue.....	Sept. 18, 1891
Forty-fifth.....	Wentworth avenue.....	Stewart avenue.....	Aug. 20, 1891
Forty-fifth.....	Stewart avenue.....	Halsted.....	Aug. 20, 1891
*Fifty-sixth.....	Ashland avenue.....	Hermitage avenue.....	.....
*Fifty-seventh.....	Ashland avenue.....	Hermitage avenue.....	.....
*Fifty-eighth.....	Ashland avenue.....	Hermitage avenue.....	.....
Farrell.....	Archer avenue.....	Hickory avenue.....	April 20, 1891
*Green.....	Sixty-third.....	Sixty-fourth.....	.....
Haines court.....	Archer avenue.....	Lyman.....	Aug. 17, 1891
Harrison.....	C. R. I. & P. R'y.....	River.....	Dec. 9, 1891
*Harrison.....	Fifth avenue.....	River.....	.....
Halsted.....	Thirty-ninth.....	Sixty-ninth.....	1890
Honore.....	Sixty-ninth.....	Seventy-second.....	.....
Honore.....	Sixty-seventh.....	Sixty-ninth.....	Unfinished.
*Hanover.....	Hundred and eleventh.....	Hundred and fifteenth.....	.....
*Hermitage avenue.....	Fifty-fifth.....	Fifty-eighth.....	.....
Indiana avenue.....	Thirty-ninth.....	Forty-third.....	Oct. 15, 1891
Ione place.....	Vincennes avenue.....	Grand boulevard.....	Aug. 26, 1891
*Jefferson avenue.....	Seventy-ninth.....	Eighty-first.....	July 1, 1891
*Jefferson avenue.....	Eighty-first.....	Eighty-third.....	July 1, 1891
*Justine.....	Fifty-third.....	Fifty-fifth.....	.....
Kimbark avenue.....	Forty-eighth.....	299 ft. south.....	Sept. 10, 1891
Lock.....	Archer avenue.....	Fuller.....	July 14, 1891

* Private Contract.

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Dec. 15, 1891	James Conlan.....	W. C. Macadam.....	7,111.90	1,807.50
May 30, 1891	Robert Herzog.....	W. C. F. Cedar blocks	13,520.31	3,269.00
Dec. 31, 1891	Dblese & Shepard.....	P. Macadam.....	2,169.00	1,220.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,609.00	1,220.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	9,671.00	2,560.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	2,304.00	1,220.00
Unfinished.	Garden City Paving & Post Co.	S. C. Cedar blocks...	5,000.00	3,800.00
.....	Dolese & Shepard.....	W. C. Macadam.....	1,700.00	510.00
Unfinished.	R. F. Conway.....	S. C. Cedar blocks...	11,300.00	5,250.00
July 3, 1891	Sackley & Peterson.....	C. W. Cedar blocks...	6,229.59	1,475.40
Sept. 9, 1891	Garden City Paving & Post Co.	C. S. Cedar blocks...	5,391.17	1,276.86
Dec. 24, 1891	O. Vider & Co.....	C. S. Cedar blocks...	906.68	800.01
.....	Grand Central Railroad Co....	Repaving of Cedar...	890.00	801.00
Unfinished.	James Conlan.....	S. C. Macadam.....	8,311.11	2,200.00
July 16, 1891	A. J. McBean.....	S. C. Cedar blocks...	2,308.60	525.00
Sept. 23, 1891	Rockefeller & Palmer.....	S. C. G. Macadam...	3,831.40	984.60
Aug. 18, 1891	Andrew Jaicks.....	S. C. Cedar blocks on Macadam	22,865.75	7,648.80
Sept. 18, 1891	Andrew Jaicks.....	S. C. Macadam.....	6,311.25	1,442.18
Aug. 22, 1891	J. V. McAdam.....	S. C. Cedar blocks...	9,501.18	2,280.30
Oct. 1, 1891	Isaac Robinson.....	S. C. Macadam.....	2,871.10	653.15
Dec. 18, 1891	Dolese & Shepard.....	W. C. Macadam.....	3,460.44	916.00
Nov. 23, 1891	Dolese & Shepard.....	S. C. Macadam.....	27,235.67	4,830.00
Sept. 16, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks...	14,720.40	4,626.55
Unfinished.	Sackley & Peterson.....	S. C. Macadam.....	8,555.50	1,952.00
Sept. 1, 1891	Dolese & Shepard.....	S. C. Macadam.....	2,327.00	616.00
Oct. 20, 1891	Dolese & Shepard.....	S. C. Macadam.....	1,038.00	292.00
Nov. 24, 1891	Farrell, Luck & Co.....	S. C. Cedar blocks...	6,200.00	1,265.00
Nov. 24, 1891	Farrell, Luck & Co.....	S. C. Cedar blocks...	9,700.00	2,300.00
.....	Dolese & Shepard.....	P. Macadam.....	2,230.00	1,250.00
.....	Dolese & Shepard.....	P. Macadam.....	2,230.00	1,250.00
.....	Dolese & Shepard.....	P. Macadam.....	2,230.00	1,250.00
May 9, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	2,702.37	703.90
.....	Eggleston, Mallette & Brownell	W. C. Cedar blocks...	2,110.00	633.00
Aug. 24, 1891	Patrick Farrell.....	C. W. Cedar blocks...	3,337.72	834.40
Dec. 31, 1891	W. F. Hair.....	Cedar blocks.....	1,534.15	610.95
.....	Grand Central Railroad Co....	Repaving of Cedar blocks...	525.56	480.00
June 27, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks...	36,200.00	19,500.00
Unfinished.	Kimbell-Cobb Stone Co.....	S. C. Macadam.....	.....	1,950.00
Unfinished.	Illinois Paving & Contr'ng Co.	S. C. Burned clay...	4,366.00	1,260.00
.....	Eggleston, Mallette & Brownell	S. C. Macadam.....	8,033.00	2,582.00
.....	Dolese & Shepard.....	P. Macadam.....	3,200.00	1,800.00
Nov. 19, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	11,789.59	2,541.00
Aug. 29, 1891	Isaac Robinson.....	S. C. Macadam.....	2,363.68	595.80
Dec. 31, 1891	Dolese & Shepard.....	P. Macadam.....	2,169.00	1,220.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,496.00	1,190.00
.....	Dolese & Shepard.....	W. C. Macadam.....	5,170.00	1,250.00
Nov. 4, 1891	Dolese & Shepard.....	S. C. Macadam.....	1,385.70	346.10
July 17, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	3,793.36	898.40

STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Lake avenue	Fifty-first	Fifty-seventh	Sept. 22, 1891
Lexington avenue	Fifty-fifth	Point 112½ ft. north	Aug. 20, 1891
Langley avenue	Forty-second	Forty-fifth	May 1, 1891
*Lafayette avenue	Seventy-third	Seventy-fourth	
*Lafin	Fifty-third	Fifty-fifth	
*Madison avenue	Eighty-first	Eighty-third	July 1, 1891
Monroe avenue	Fifty-fifth	Fifty-eighth	May 28, 1891
Morgan	Fifty-fourth	Fifty-fifth	June 8, 1891
Michigan avenue	Fifty-fifth	Sixty-third	
*Marshfield	Fifty-fifth	Fifty-eighth	
Ninetieth	Green Bay avenue	Manistee avenue	April 10, 1891
Ninety-third	Anthony avenue	Ashkum avenue	Jan. 8, 1891
*Hundred and twelfth	Stewart avenue	Wallace	
*Hundred and thirteenth	Stewart avenue	Wallace	
*Hundred and fourteenth	Stewart avenue	Wallace	
Ontario avenue	Eighty-ninth	Harber avenue	Feb. 21, 1891
Paulina	Archer avenue	Thirty-eighth	June 27, 1891
Portland avenue	Thirty-first	Thirty-third	June 19, 1891
Prairie avenue	Twenty-sixth	Thirty-first	June 16, 1891
Parnell avenue	Twenty-ninth	Thirty-first	Nov. 23, 1891
Park End avenue	Sixtieth	Sixty-first	May 29, 1891
*Parnell avenue	Hundred and eleventh	One hundred and fifteenth	
*Perry avenue	Seventy-third	Seventy-fourth	
*Peoria	Sixty-third	Sixty-fourth	
*Paulina	Fifty-fifth	Fifty-eighth	
Quinn	Archer avenue	Thirty-first	July 30, 1891
State	Jackson	Sixteenth	July 22, 1891
Shields avenue	Thirty-first	Thirty-third	July 15, 1891
Swift place	Wentworth avenue	Stewart avenue	Sept. 11, 1891
Seventy-fourth place	Mattison	Bissel avenue	Nov. 21, 1890
Sixty-second	Cottage Grove avenue	Greenwood avenue	June 22, 1891
Sixty-third	Cottage Grove avenue	Stony Island avenue	Oct. 15, 1890
W. ½ South Park avenue	Fifty-first	Fifty-fifth	July 27, 1891
South Chicago avenue	Commercial avenue	Ninety-second	May 1, 1891
Stewart avenue	Sixty-ninth	Seventy-first	April 24, 1891
Sherman	Sixty-third	Sixty-fifth	July 10, 1891
Sixty-seventh	Wright	Honore	June 27, 1891
Sixty-first	Wallace	Winter	July 7, 1891
Sixty-ninth	Vincennes avenue	State	
*Sangamon	Sixty-third	Sixty-fourth	
*Sixty-fourth	Halsted	Morgan	
*Sherman	Fifty-fifth	Fifty-sixth	
*Spencer avenue	Seventy-fifth	Seventy-sixth	Aug. 1, 1891
*Sydney avenue	Forty-fourth	Forty-fifth	Aug. 28, 1891
Sixty-second	Halsted	Wallace	April 15, 1891
Twenty-seventh	Hanover	Wallace	July 15, 1891
Thirty-seventh	Lake avenue	E. Terminus	June 30, 1891
Thirty-eighth	Indiana avenue	Grand boulevard	July 17, 1891

*Private Contract.

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
May 31, 1891	Kimbell-Cobb Stone Co.....	W. C. Brick paving...	6,267.63	1,522.00
Oct. 5, 1891	Dolese & Shepard.....	W. C. P. Macadam...	425.00	112.00
July 9, 1891	Sackley & Peterson.....	S. C. F. Macadam...	7,240.00	1,858.30
.....	Eggleston, Mallette & Brownell	W. C. F. Macadam...	2,066.00	620.00
.....	Dolese & Shepard.....	W. C. Macadam.....	5,170.00	1,250.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,496.00	1,190.00
Aug. 15, 1891	Sackley & Peterson.....	S. C. Macadam.....	7,055.70	1,800.20
Dec. 15, 1891	Chas. B. Parsons.....	‡ W. ‡ S. Curb Macadam...	2,626.00	622.00
Unfinished.	T. Byrne.....	S. C. Macadam.....	.....	5,150.00
.....	Dolese & Shepard.....	P. Macadam.....	3,200.60	1,800.00
Aug. 7, 1891	Kimbell-Cobb Stone Co.....	W. C. F. Macadam...	22,453.30	3,874.00
July 15, 1891	Dolese & Shepard.....	W. C. F. Macadam...	2,906.00	1,868.00
.....	Eggleston, Mallette & Brownell	Pav. Macadam.....	3,736.00	1,201.00
.....	Eggleston, Mallette & Brownell	Pav. Macadam.....	3,742.00	3,208.00
.....	Eggleston, Mallette & Brownell	Pav. Macadam.....	3,748.00	1,205.00
June 13, 1891	Robert Herzog.....	F. Macadam.....	6,285.40	3,132.70
July 14, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	17,811.21	4,113.00
June 25, 1891	Patrick Farrell.....	S. C. Cedar blocks...	5,436.73	1,287.60
Dec. 8, 1891	Barber Asphalt Paving Co. ...	S. C. Sheet Asphalt...	11,482.04	2,719.76
Nov. 28, 1891	J. B. Smith & Co.....	S. C. Cedar blocks...	5,509.32	1,304.84
July 9, 1891	Rockefeller & Palmer.....	W. C. Macadam.....	2,154.00	597.20
.....	Eggleston, Mallette & Brownell	Macadam.....	8,086.00	2,583.00
.....	Eggleston, Mallette & Brownell	W. C. Macadam.....	2,066.00	620.00
.....	Eggleston, Mallette & Brownell	W. C. Macadam.....	2,110.00	633.00
.....	Dolese & Shepard.....	P. Macadam.....	8,200.00	1,800.00
Aug. 29, 1891	J. V. McAdam.....	S. C. Cedar blocks...	8,735.32	2,480.00
Oct. 26, 1889	Western Paving & Supply Co..	Re-Pav. Granite blocks	1,053.98	431.18
July 18, 1891	Patrick Farrell.....	S. C. Cedar blocks...	5,493.03	1,800.90
Sept. 17, 1891	Patrick Farrell.....	S. C. Cedar blocks...	4,436.39	1,050.72
May 29, 1891	Dolese & Shepard.....	W. C. Macadam.....	1,257.00	377.00
Aug. 12, 1891	Kimbell-Cobb Stone Co.....	W. C. Macadam.....	6,885.75	1,682.00
June 4, 1891	Kimbell-Cobb Stone Co.....	W. C. Macadam.....	17,660.00	3,120.00
Nov. 30, 1891	Dolese & Shepard.....	S. C. Macadam.....	5,258.02	2,434.64
Sept. 14, 1891	Kimbell-Cobb Stone Co.	C. Wall, Fill. Macadam	4,891.90	778.50
Aug. 19, 1891	Eggleston, Mallette & Brownell	S. C. Macadam.....	5,490.00	1,300.00
Aug. 19, 1891	Chas. B. Parsons.....	S. C. Macadam.....	4,735.00	1,421.00
Sept. 30, 1891	Eggleston, Mallette & Brownell	S. C. Macadam.....	2,100.00	624.00
Aug. 19, 1891	Sackley & Peterson.....	S. C. Macadam.....	2,772.00	656.00
Dec. 5, 1891	Kimbell-Cobb Stone Co.....	S. C. Macadam.....	620.00	310.00
.....	Eggleston, Mallette & Brownell	W. C. Macadam.....	2,110.00	633.00
.....	Eggleston, Mallette & Brownell	W. C. Macadam.....	3,863.00	1,159.00
.....	Dolese & Shepard.....	W. C. Macadam.....	1,700.00	510.00
Sept. 8, 1891	Dennis McNamara.....	P. Macadam.....	711.00	600.00
Sept. 10, 1891	Dolese & Shepard.....	Concrete Curb Pav. Macadam.	1,155.00	433.00
Oct. 16, 1891	Sackley & Peterson.....	P. Macadam.....	4,407.50	1,322.35
July 29, 1891	Patrick Farrell.....	S. C. Cedar blocks...	3,578.89	847.00
June 30, 1891	White & Valentine.....	S. C. Cedar blocks...	668.88	157.00
July 24, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	4,491.59	1,042.40

STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Thirty-sixth place.....	Vincennes avenue.....	Stanton avenue.....	Sept. 11, 1891
Twenty-third.....	Wentworth avenue.....	Archer avenue.....	Sept. 17, 1891
Twenty-seventh.....	Portland avenue.....	Stewart avenue.....	Sept. 29, 1891
Union avenue.....	Forty-seventh.....	Fifty-fifth.....	Unfinished.
Vincennes avenue.....	Forty-seventh.....	Fifty-first.....	Feb. 10, 1891
Wharton avenue.....	Sixtieth.....	Sixty-third.....	Oct. 19, 1891
*Washington avenue.....	Seventy-ninth.....	Eighty-first.....	July 1, 1891
*Washington avenue.....	Eighty-first.....	Eighty-third.....	July 1, 1891
Wright.....	Sixty-ninth.....	Seventy-second.....	Unfinished.
Western avenue.....	Illinois and Michigan Canal.....	Thirty-ninth.....	July 27, 1891
Wright.....	Sixty-seventh.....	Sixty-ninth.....	July 14, 1891
Wabash avenue.....	Fifty-fifth.....	Sixty-third.....	Aug. 10, 1891
Wright.....	Sixty-fifth.....	Sixty-seventh.....	Sept. 1, 1891
Wallace.....	Thirty-ninth.....	Fortieth.....	Unfinished.
Wallace.....	Fortieth.....	Forty-third.....	Unfinished.
Wood.....	Archer avenue.....	Thirty-ninth.....	June 9, 1891
*Wallace.....	Hundred and eleventh.....	Hundred and fifteenth.....
*Winter.....	Fifty-fifth.....	Fifty-sixth.....

* Private Contract.

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Sept. 11, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	1,601.27	740.00
Sept. 28, 1891	Patrick Farrell.....	P. Cedar blocks.....	8,504.05	2,014.12
Sept. 30, 1891	Patrick Farrell	S. C. P. Cedar blocks.	2,145.53	508.15
Unfinished.	R. F. Conway.....	S. C. Pav. Macadam...		5,235.00
July 21, 1891	Sackley & Peterson.....	S. C. Macadam.....	11,630.00	2,688.80
Dec. 15, 1891	James Conlan.....	W. C. Macadam.....	7,105.09	1,805.70
Dec. 31, 1891	Dolese & Shepard	P. Macadam.....	1,084.00	610.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,496.00	1,190.00
Unfinished.	Eggleston, Mallette & Brownell	S. C. Macadam		1,950.00
Aug. 18, 1891	Garden City Paving & Post Co.	S. C. Macadam	17,589.00	4,300.00
Aug. 25, 1891	A. J. McBean.....	S. C. Macadam	4,585.00	1,254.00
Dec. 5, 1891	R. F. Conway.....	S. C. Cedar blocks....	29,810.00	5,150.00
Nov. 5, 1891	Isaac Robinson.....	S. C. Macadam	4,570.00	1,370.00
Unfinished.	S. F. Hair.....	S. C. Cedar blocks....		600.00
Unfinished.	Farrell, Luck & Co.....	S. C. Cedar blocks....		2,000.00
July 23, 1891	R. F. Conway.....	S. C. Cedar blocks....	18,135.00	4,180.00
.....	Eggleston, Mallette & Brownell	P. Macadam	8,036.00	2,583.00
.....	Dolese & Shepard.....	W. C. Macadam.....	1,700.00	510.00
TOTALS			846,397.25	269,758.85

Lineal feet paving 250,973.35 feet, or 47.53 miles.

On unpaved streets, lineal feet curbing..... 18,785.00 feet, or 3.56 miles.

GRAND TOTALS..... 269,758.35 feet, or 51.09 miles.

STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Judd and Wilson.....	Clinton and Jefferson...	July 28, 1891
Alley.....	Washington and Madison ..	Green and Peoria.....	Aug. 5, 1891
Alley.....	Maxwell and Liberty.....	Union and Halsted.....	Dec. 17, 1891
Alley.....	Millard and Lawndale.....	W Twenty-third & W Twenty-fourth	Oct. 17, 1891
Alley.....	Maxwell and West Twelfth ..	Halsted and Newberry...	Sept. 28, 1891
Alley.....	West Twelfth and Dunsold ..	Union and Halsted.....	Dec. 17, 1891
Alley.....	Union and Halsted.....	Barker and Wright.....	Oct. 4, 1891
Alley.....	Ashland and Paulina.....	Chicago and Superior ..	Sept. 29, 1891
Alley.....	Chicago ave. and Huron ..	Ayers court and Center.	Nov. 16, 1891
Alley.....	Paulina and Lull place.....	Milwaukee and Moorman ..	Sept. 9, 1891
Alley.....	Milwaukee avenue and Robey ..	Evergreen, Potomac and Lincoln	July 18, 1891
Alley.....	Indiana and Ohio.....	Carpenter and Curtis...	July 24, 1891
Alley.....	Noble and Armour.....	Erie and Ohio.....	July 13, 1891
Alley.....	Robey and Lincoln.....	Emerson and Indiana...	June 8, 1891
Alley.....	Bickerdike and Armour.....	Huron and Erie.....	July 13, 1891
Alley.....	Wood and Lincoln.....	Chicago and Superior ..	June 3, 1891
Alley.....	Centre ave. and Noble.....	Chicago avenue and Fry ..	Aug. 6, 1891
Alley.....	Armour and Ashland avenue ..	Chicago avenue and Superior ..	July 18, 1891
Alley.....	Erie and Ohio.....	Ada and Noble.....	Nov. 16, 1891
Alley.....	Evergreen and Robey.....	Milwaukee avenue and Park ..	July 29, 1891
Alley.....	Holt and Ashland ave.....	Chicago and Fry.....	Oct. 19, 1891
Alley.....	Hoyne ave. and Leavitt.....	Austin avenue and Kinzie ..	Oct. 27, 1891
Alley.....	Robey and Leavitt.....	Evergreen and Potomac ..	July 1, 1891
Alley.....	Noble and Currier.....	Milwaukee and Wade.....	Oct. 13, 1891
Alley.....	Brigham and Paulina.....	Milwaukee and Dean.....	Nov. 7, 1891
Alley.....	Bradley and Blackhawk.....	Cleaver and Holt.....	Sept. 17, 1891
Alley.....	Elk and Ashland ave.....	Milwaukee avenue and Bauwans ..	Oct. 15, 1891
Alley.....	Chapin and Division.....	E of Noble & E & W Alley to R. R.	Sept. 14, 1891
Alley.....	Adams and Jackson.....	Ashland and Laffin.....	Aug. 17, 1891
Alley.....	East Aberdeen.....	Jackson and Van Buren ..	Sept. 5, 1891
Alley.....	Hoyne and Leavitt.....	Lake and Walnut.....	Oct. 12, 1891
Alley.....	Halsted and Green.....	Randolph and Lake.....	July 21, 1891
Alley.....	Halsted and Green.....	Lake and Fulton.....	July 17, 1891
*Alley.....	Randolph, south 280 ft.....	Bet. Canal and W. Water ..	Sept. 28, 1891
Alley.....	Jackson and Adams.....	Aberdeen and Center.....	Aug. 14, 1891
Alley.....	Jackson and Van Buren.....	Peoria and Sangamon.....	May 14, 1891
Alley.....	Leavitt and Hoyne ave.....	Park avenue and Washington ..	Sept. 5, 1891
Alley.....	Lake and Fulton.....	Elizabeth and Ann.....	July 21, 1891
Alley.....	Monroe and Adams.....	Throop and Center avenue ..	Oct. 12, 1891
Alley.....	Morgan and Aberdeen.....	Harrison and Congress ..	June 23, 1891
Alley.....	Madison and Washington.....	Bishop court and Ogden avenue ..	June 23, 1891
Alley.....	Paulina and Wood.....	Walnut and Fulton.....	Oct. 12, 1891
Alley.....	Paulina and Ashland ave ..	Madison and Ogden place ..	Nov. 20, 1891
Alley.....	Robey and Lincoln.....	Lake and Walnut.....	Oct. 12, 1891
Alley.....	Robey and Winchester avenue ..	Adams and Jackson.....	Nov. 19, 1891
Alley.....	Robey and Hoyne.....	Washington and Warren avenue ..	Sept. 5, 1891
Alley.....	School.....	Clinton and Jefferson.....	Nov. 13, 1891
Alley.....	Van Buren and Jackson.....	Jefferson and Desplaines ..	Nov. 5, 1891

* Private Contract.

STREET DEPARTMENT.

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WEST DIVISION, 1891.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
July 31, 1891	P. Farrell.....	W. C. G. Cedar blocks	454.62	858.91
Aug. 18, 1891	P. Farrell.....	W. C. G. F. Cedar blocks ..	1,249.90	610.00
Dec. 19, 1891	O. Vider & Co.....	W. C. F. G. Cedar blocks....	477.00	438.64
Oct. 18, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	996.07	597.64
Oct. 8, 1891	P. Farrell.....	W. C. F. Cedar blocks	1,426.74	930.12
Dec. 19, 1891	O. Vider & Co.....	W. C. Cedar blocks...	454.89	426.46
Oct. 10, 1891	J. V. McAdam & Co.....	W. C. Cedar blocks...	282.24	173.98
Oct. 3, 1891	J. V. McAdam & Co.....	W. C. C. Cedar blocks	1,328.00	600.00
Nov. 24, 1891	A. J. McBean & Co.....	W. C. F. Cedar blocks	1,007.02	813.00
Sept. 21, 1891	J. V. McAdam & Co.....	W. C. C. Cedar blocks	447.92	350.10
July 28, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks...	3,985.15	2,009.80
July 28, 1891	P. Farrell.....	W. C. C. Cedar blocks	605.22	320.30
July 23, 1891	P. Farrell.....	W. C. F. Cedar blocks	1,167.60	754.80
June 8, 1891	W. F. Hair.....	C. G. Cedar blocks ..	603.50	600.00
July 17, 1891	J. B. Smith & Co.....	W. C. C. Cedar blocks	559.00	377.00
June 9, 1891	Garden City Paving & Post Co.	W. C. C. Cedar blocks	1,068.97	600.00
Aug. 17, 1891	P. Farrell.....	W. C. C. Cedar blocks	2,290.36	1,204.00
July 20, 1891	A. J. McBean & Co.....	W. C. C. Cedar blocks	561.28	377.00
Nov. 18, 1891	O. Vider & Co.....	W. C. F. Cedar blocks	827.37	482.00
Aug. 11, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks ..	1,746.24	1,041.70
Oct. 27, 1891	J. V. McAdam & Co.....	W. C. C. Cedar blocks	690.36	612.00
Oct. 30, 1891	O. Vider & Co.....	W. C. C. Cedar blocks	1,292.16	602.65
July 11, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks ..	2,032.87	1,200.00
Nov. 7, 1891	A. J. McBean & Co.....	W. C. F. Cedar blocks	1,327.09	774.57
Nov. 17, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,166.62	704.67
Oct. 11, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,343.92	771.23
Oct. 24, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,201.40	700.20
Sept. 23, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,035.17	665.00
Nov. 23, 1891	J. V. McAdam & Co.....	C. G. Cedar blocks...	1,906.00	1,048.00
Oct. 21, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	667.50	396.20
Oct. 28, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	1,034.29	601.00
Aug. 7, 1891	P. Farrell.....	W. C. G. Cedar blocks	403.20	252.00
July 18, 1891	A. J. McBean & Co.....	W. C. G. Cedar blocks	266.69	250.00
Oct. 9, 1891	Private contract.....	Granite.....	460.00	230.00
Aug. 17, 1891	P. Farrell.....	C. G. Cedar blocks...	494.59	397.44
May 21, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	682.17	388.72
Oct. 8, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	1,018.14	598.75
July 28, 1891	P. Farrell.....	W. C. G. Cedar blocks	947.58	495.88
Nov. 4, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	2,508.00	1,050.00
July 29, 1891	Garden City Paving & Post Co.	W. C. F. Cedar blocks	1,831.97	755.00
July 4, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	900.61	638.31
Nov. 13, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	1,033.44	600.00
Dec. 9, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	972.00	581.00
Oct. 28, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	650.57	600.00
Nov. 23, 1891	J. V. McAdam & Co.....	C. G. Cedar blocks...	880.78	1,283.04
Oct. 6, 1891	J. V. McAdam & Co.....	C. G. Cedar blocks...	1,003.33	596.28
Nov. 26, 1891	A. J. McBean & Co.....	W. C. G. Cedar blocks	627.33	320.00
Nov. 7, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	779.00	398.00

STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Van Buren and York...	Ashland and Marshfield avenue...	May 14, 1891
Alley.....	Wood and Honore...	Adams and Jackson...	May 14, 1891
Alley.....	Western avenue and Campbell...	Madison and Warren avenue...	May 14, 1891
Alley.....	Jackson and Adams...	Ashland avenue and Ladin...	Sept. 5, 1891
Alley.....	Robey and Ashland ave.	Warren and Washington	Nov. 11, 1891
Ann.....	Fulton...	C. & N.-W. R'y.	April 18, 1891
Arthington.....	Loomis.....	Sibley.....	May 20, 1891
Ashland avenue.....	Robey.....	Oliver.....	April 15, 1891
Adams.....	Kedzie.....	Central Park.....	May 21, 1891
Albany avenue.....	Colorado avenue.....	Harrison.....	May 21, 1891
Ambrose.....	Wood.....	Leavitt.....	Aug. 1, 1891
Bonney avenue.....	Ogden avenue.....	West Twenty-sixth.....	.....
Burlington.....	West Sixteenth.....	West Eighteenth.....	April 20, 1891
Basil avenue.....	North avenue.....	Bloomingtondale road.....	Oct. 5, 1891
Blanche.....	Noble.....	Ashland avenue.....	Sept. 16, 1891
Colorado avenue.....	Jackson.....	Central Park.....	June 5, 1891
Columbia place.....	Lake.....	Kinzie.....	May 21, 1891
Congress.....	Ashland avenue.....	Ogden avenue.....	Sept. 14, 1891
Cortland.....	Western avenue.....	Humboldt boulevard.....	.....
California avenue.....	Chicago avenue.....	Division.....	Aug. 28, 1891
Chicago avenue.....	Leavitt.....	California avenue.....	June 12, 1891
Clarinda.....	Ashland avenue.....	Wood.....	July 27, 1891
Clarinda.....	Ashland avenue.....	Holt.....	Oct. 5, 1891
California avenue.....	West Twenty-second.....	West Twenty-sixth.....	Oct. 1, 1890
Central Park.....	Ogden avenue.....	West Twenty-second.....	May 15, 1891
Central Park.....	Douglas Park boulevard.....	West Fifteenth.....	May 7, 1891
Clayton.....	Morgan.....	Fisk.....	May 18, 1891
Clifton Park avenue.....	West Twenty-second.....	West Twenty-sixth.....	May 1, 1891
Central Park.....	West Twenty-second.....	West Twenty-sixth.....	.....
Coulter.....	Robey.....	Hoyne Avenue.....	May 27, 1891
Dean.....	Paulina.....	Brigham.....	May 6, 1891
Dixon.....	North avenue.....	Wabansia avenue.....	Mar. 2, 1891
Dudley.....	North avenue.....	Armitage avenue.....	Nov. 20, 1891
Drake avenue.....	Central Park boulevard.....	Ohio.....	Aug. 14, 1891
Evans court.....	Union.....	Halsted.....	Feb. 21, 1891
Elk Grove.....	North avenue.....	Armitage avenue.....	Jan. 2, 1891
Eighteenth place.....	Brown avenue.....	May avenue.....	July 17, 1891
Eleventh.....	Blue Island avenue.....	May.....	May 21, 1891
Erie.....	Leavitt.....	Western avenue.....	Nov. 2, 1891
Elm.....	Milwaukee avenue.....	Lincoln.....	Nov. 8, 1891
Fairfield avenue.....	Twelfth.....	Harvard.....	June 10, 1891
Flournoy.....	California.....	Francisco.....	Oct. 4, 1891
Flournoy.....	California.....	Francisco.....	April 14, 1891
Fillmore.....	Western avenue.....	Campbell avenue.....	Aug. 8, 1891
Fairfield avenue.....	West Lake.....	Kinzie.....	Aug. 8, 1891
Fullerton avenue.....	Elston avenue.....	Milwaukee avenue.....	Nov. 21, 1891
Fullerton avenue.....	Milwaukee avenue.....	Kedzie avenue.....	Aug. 19, 1891
Fifteenth.....	Western avenue.....	California avenue.....	June 6, 1891

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
May 21, 1891	R. F. Conway.....	W. C. G. Cedar blocks	1,893.40	1,101.21
June 11, 1891	W. F. Hair.....	W. C. G. Cedar blocks	344.88	266.80
June 9, 1891	W. F. Hair.....	W. C. G. Cedar blocks	822.00	493.20
Oct. 7, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	1,906.00	1,048.00
Dec. 5, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	4,002.81	4,602.08
May 29, 1891	R. F. Conway.....	C. G. Cedar blocks...	2,101.89	630.57
May 20, 1891	J. B. Smith & Co.....	C. G. Cedar blocks...	1,582.34	274.76
May 19, 1891	J. B. Smith & Co.....	C. G. Cedar blocks...	4,784.88	1,127.33
Aug. 19, 1891	Western Paving & Supply Co.	C. G. Sheet Asphalt...	11,338.47	2,685.43
July 18, 1891	R. F. Conway.....	C. F. Cedar blocks...	6,268.74	1,484.70
Oct. 8, 1891	J. B. Smith & Co.....	C. G. Cedar blocks...	10,758.08	2,547.97
.....	Barber Asphalt Co.....	Asphaltum.....	10,885.89	3,265.77
July 24, 1891	J. V. McAdam & Co.....	C. G. Cedar blocks...	2,741.78	822.53
Oct. 29, 1891	R. F. Conway.....	C. F. Cedar blocks...	4,324.39	1,295.59
Oct. 14, 1891	J. B. Smith & Co.....	C. Wall F. Cedar blocks...	4,639.85	1,097.18
July 25, 1891	O. Vider & Co.....	C. G. Cedar blocks...	7,764.26	1,838.94
July 13, 1891	R. F. Conway.....	C. G. Cedar blocks...	3,237.94	971.38
Nov. 24, 1891	Western Paving & Supply Co.	C. G. Sheet Asphalt...	8,342.49	1,975.85
.....	R. F. Conway.....	C. F. Cedar blocks...	13,837.83	4,151.35
June 4, 1891	Western Paving & Supply Co.	C. F. Cedar blocks...	9,833.31	2,555.40
Sept. 26, 1891	A. J. McBean & Co.....	C. C. F. Cedar blocks	4,115.34	10,167.68
Sept. 18, 1891	O. Vider & Co.....	C. C. Cedar blocks...	3,730.47	1,040.30
Oct. 23, 1891	J. B. Smith & Co.....	C. C. F. Cedar blocks	1,690.04	600.00
June 18, 1891	Cardon & Co.....	C. F. Cedar blocks...	9,924.22	2,350.47
May 20, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	3,840.41	960.10
May 14, 1891	Garden City Paving Co.....	C. F. Cedar blocks...	4,888.23	1,206.19
May 19, 1891	Garden City Paving Co.....	C. F. Cedar blocks...	1,226.14	396.95
June 5, 1891	O. Vider & Co.....	C. F. Cedar blocks...	8,998.33	2,699.50
Unfinished.	J. V. McAdam & Co.....	Curbing & Filling.....	.....	2,800.00
Aug. 3, 1891	P. Farrell.....	C. F. Cedar blocks...	2,813.22	661.07
May 9, 1891	J. B. Smith & Co.....	G. Cedar blocks.....	1,710.07	401.80
June 18, 1891	J. V. McAdam & Co.....	C. Wall F. Cedar blocks...	2,067.86	624.52
June 15, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	8,188.80	1,924.91
Oct. 10, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	2,175.21	503.20
June 9, 1891	P. Farrell.....	C. F. Cedar blocks...	1,813.34	453.34
May 23, 1891	A. J. McBean.....	C. F. Cedar blocks...	10,754.44	5,093.70
July 23, 1891	A. J. McBean.....	C. F. Cedar blocks...	8,651.44	1,173.68
May 23, 1891	J. B. Smith & Co.....	C. C. Cedar blocks...	2,291.94	736.70
Dec. 2, 1891	J. V. McAdam & Co.....	C. Cedar blocks.....	5,552.41	1,267.40
Unfinished.	G. B. McBean.....	C. Cedar blocks.....	2,700.00	600.00
June 13, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	4,254.13	1,259.44
Oct. 4, 1891	George B. McBean.....	G. Cedar blocks.....	2,047.73	614.00
May 1, 1891	R. F. Conway.....	Curbing & Filling.....	.....	615.16
Nov. 10, 1891	R. F. Conway.....	C. F. Cedar blocks...	2,073.33	602.80
Aug. 15, 1891	R. F. Conway.....	C. F. Cedar blocks...	4,885.74	1,157.10
Oct. 12, 1891	O. Vider & Co.....	W. C. F. Cedar blocks	37,105.80	6,349.08
Sept. 19, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	11,694.86	1,748.40
July 21, 1891	Western Paving & Supply Co.	C. F. Cedar blocks...	10,382.85	2,446.22

STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Hoyne avenue.....	West Eighteenth.....	West Twenty-second...	Oct. 1, 1891
Heine	North avenue.....	Bloomington road.....	.....
Hoyne avenue.....	Armitage avenue.....	Asylum place.....	Aug. 4, 1891
Hervey	Wood.....	Robey.....	Oct. 4, 1890
Halsted.....	Harrison.....	Van Buren.....	Nov. 1, 1891
Hope.....	Blue Island avenue.....	Morgan.....	.....
Jane.....	Western avenue.....	California avenue.....	June 8, 1891
Julian.....	Ashland avenue.....	Wood.....	April 27, 1891
Kedzie avenue.....	Central Park boulevard.	Augusta.....	May 20, 1891
Kedzie avenue.....	West Twelfth.....	West Twenty-second...	Aug. 1, 1891
Lafin	West Fourteenth.....	West Sixteenth.....	May 18, 1891
Lafin	West Sixteenth.....	Blue Island avenue.....	May 8, 1891
Lawndale avenue.....	West Twenty-sixth.....	West Thirty-first.....	Sept. 1, 1891
Lytle	McAlister place.....	Harrison.....	May 27, 1891
Lull place.....	Wood.....	E line lots 3 & 4 Spear's addition	Nov. 3, 1890
Milwaukee avenue.....	Fullerton avenue.....	Logan square.....	July 25, 1891
Macedonia	Division.....	Ellen.....	April 11, 1891
Mantene court.....	Milwaukee avenue.....	South terminus.....	Aug. 20, 1891
Maplewood avenue.....	Division.....	North avenue.....	July 30, 1891
Marble place.....	Desplaines.....	Halsted.....	June 23, 1891
Maplewood avenue.....	Lake.....	Railroad.....	April 23, 1891
Madison	Viaduct.....	Jefferson.....	April 15, 1891
Monroe.....	Kedzie avenue.....	Central Park avenue...	May 21, 1891
W. Madison.....	Intersection.....	Ashland avenue.....	June 15, 1891
Millard avenue.....	West Twenty-sixth.....	West Twenty-eighth...	Oct. 17, 1891
North avenue.....	Kedzie avenue.....	Tinkham avenue.....	Oct. 19, 1891
Nutt.....	West Sixteenth.....	West Eighteenth.....	May 28, 1891
Nutt court.....	West Nineteenth.....	West Twentieth.....	Oct. 14, 1891
Ogden avenue.....	Millard avenue.....	Crawford avenue.....	Sept. 1, 1891
Owasco.....	Rockwell.....	Washtenaw avenue.....	April 4, 1891
Ohio	Robey.....	Western avenue.....	Sept. 28, 1891
Osborne	Indiana.....	Ohio.....	Nov. 5, 1891
Potomac avenue.....	Western avenue.....	California avenue.....	Sept. 21, 1891
Paulina	Wabansia avenue.....	Armitage avenue.....	Nov. 1, 1890
Park avenue.....	Kedzie avenue.....	Homan avenue.....	June 21, 1891
Robey	West Eighteenth.....	Blue Island avenue.....	May 26, 1891
Ruble	West Eighteenth.....	Canalport avenue.....	June 10, 1891
Randolph.....	South Branch R.....	Desplaines.....	Aug. 21, 1891
Rice.....	Wood.....	Lincoln.....	July 2, 1891
Rockwell.....	North avenue.....	Armitage avenue.....	Aug. 24, 1891
Seymour.....	North avenue.....	Armitage avenue.....	Sept. 24, 1891
Sheldon.....	Washington.....	Randolph.....	Aug. 2, 1891
St. Louis avenue.....	Lake.....	Kinzie.....	June 22, 1891
Sacramento avenue.....	Lake.....	Kinzie.....	June 12, 1891
W. Superior.....	Rockwell.....	Washtenaw avenue.....	July 29, 1891
Sawyer avenue.....	Ogden avenue.....	C. B. & Q. R. R.....	.....
Sixteenth.....	Canal.....	Halsted.....	.....
Sixteenth.....	Halsted.....	Throop.....	Oct. 23, 1890

DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Nov. 2, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	7,168.16	1,697.72
.....	R. F. Conway.....	C. F. Cedar blocks...	4,800.00	1,250.00
Aug. 12, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	5,778.60	1,368.62
June 1, 1891	R. F. Conway.....	C. F. Cedar blocks...	5,718.28	1,355.75
Dec. 1, 1891	Wisconsin Central Railroad Co.	Cedar blocks.....	2,170.00	890.00
.....	P. Farrell.....	C. G. Cedar blocks...	1,997.00	642.00
July 31, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	11,461.84	5,451.27
May 26, 1891	J. B. Smith & Co.....	Cedar blocks.....	4,949.16	1,237.29
July 16, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	13,028.30	3,040.72
Oct. 12, 1891	R. F. Conway.....	C. F. Cedar blocks...	21,933.48	5,167.57
May 21, 1891	P. Farrell.....	C. F. Cedar blocks...	3,677.09	870.89
May 25, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	6,444.07	1,526.23
Sept. 29, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	9,507.74	2,852.32
July 3, 1891	White & Valentine.....	C. G. Cedar blocks...	2,008.25	475.64
July 20, 1891	White & Valentine.....	C. Cedar blocks.....	1,285.84	321.50
Sept. 31, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	8,446.34	2,000.45
May 25, 1891	A. J. McBean.....	C. G. Cedar blocks...	1,598.40	756.90
Aug. 31, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks...	1,288.16	376.00
Sept. 3, 1891	R. F. Conway.....	C. Cedar blocks.....	9,189.82	2,566.50
July 22, 1891	P. Farrell.....	C. G. Cedar blocks...	1,596.00	798.00
June 8, 1891	J. J. Duffy & Co.....	C. F. Cedar blocks...	5,573.78	1,072.12
Oct. 17, 1891	R. F. Conway.....	W. P. P. Cedar blocks	3,495.05	983.00
Sept. 17, 1891	Western Paving & Supply Co..	C. G. Sheet Asphalt..	11,578.83	2,803.05
July 14, 1891	Barber Asphalt Co.....	Sheet Asphalt.....	589.11	151.61
Oct. 22, 1891	A. J. McBean & Co.....	C. F. Cedar blocks...	4,795.70	1,433.93
Nov. 25, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	21,506.30	3,225.96
May 29, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	2,569.00	606.85
Oct. 31, 1891	P. Farrell.....	C. F. Cedar blocks...	1,117.02	456.96
Sept. 11, 1891	R. F. Conway.....	W. C. G. Cedar blocks	8,922.63	2,538.69
July 11, 1891	R. F. Conway.....	C. F. Cedar blocks...	1,803.01	571.27
Oct. 28, 1891	R. F. Conway.....	C. C. Cedar blocks...	10,603.64	2,598.20
Nov. 21, 1891	G. B. McBean.....	C. Cedar blocks.....	1,437.64	460.00
Oct. 13, 1891	A. J. McBean & Co.....	C. Cedar blocks.....	11,014.06	2,194.36
May 30, 1891	A. J. McBean.....	C. F. Cedar blocks...	8,169.12	3,869.50
July 10, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	4,284.11	1,285.83
July 22, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	13,334.70	3,141.68
June 11, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	1,795.99	538.80
Nov. 12, 1891	R. F. Conway.....	W. P. P. Granite.....	5,407.76	1,238.00
July 17, 1891	J. B. Smith & Co.....	C. C. Cedar blocks...	2,386.06	599.00
Sept. 28, 1891	R. F. Conway.....	C. F. Cedar blocks...	10,855.13	2,578.06
Oct. 26, 1891	O. Vider & Co.....	C. F. Cedar blocks...	11,109.80	2,631.27
Aug. 15, 1891	Garden City Paving & Post Co.	P. Cedar blocks.....	1,794.07	424.44
July 16, 1891	R. F. Conway.....	C. F. Cedar blocks...	3,976.45	1,192.94
July 10, 1891	R. F. Conway.....	C. P. Cedar blocks...	5,824.38	1,879.46
Sept. 5, 1891	R. F. Conway.....	C. F. Cedar blocks...	2,551.24	605.00
Unfinished.	A. J. McBean & Co.....	C. F. Cedar blocks...	5,877.00	1,768.10
Unfinished.	John Ruddy.....	C. F. Cedar blocks...	.....	2,000.00
June 5, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	14,180.14	3,329.09

STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Sixteenth	Western avenue.....	California avenue.....	May 9, 1891
Seventeenth.....	Lincoln.....	Robey.....	May 1, 1891
Spaulding avenue.....	Ogden avenue.....	C. B. & Q. R. R.....	June 16, 1891
Shelby court	West Nineteenth.....	West Twentieth.....	June 12, 1891
String	Canalport avenue.....	West Twenty-first.....	July 20, 1891
Turner avenue.....	Ogden avenue.....	West Twenty-first.....	Oct. 14, 1891
Twelfth.....	Kedzie avenue.....	Douglas Park boulevard	Jan. 12, 1891
Twenty-first.....	Halsted.....	Johnson.....	Oct. 2, 1891
Twenty-second	Lawndale avenue.....	Hamlin avenue.....	Oct. 14, 1891
Twenty-third.....	Lawndale avenue.....	Hamlin avenue.....	June 9, 1891
Twenty-third.....	Central Park avenue.....	Lawndale avenue.....	June 16, 1891
Troy	Twelfth.....	Fillmore.....	May 15, 1891
Thomas	West line of Seymour...	East curb line California avenue	Oct. 15, 1890
Thomas.....	Western avenue.....	Seymour.....	July 13, 1891
Trustee	Kinzie.....	Austin avenue.....	Sept. 10, 1891
Van Buren	Clinton.....	Halsted.....	Nov. 1, 1891
Washburne avenue.....	Wood.....	Lincoln.....	May 27, 1891
Wood	West Fifteenth	Blue Island avenue.....	May 28, 1891
Wabansia avenue	Robey.....	Milwaukee avenue.....	Aug. 1, 1891
Washtenaw avenue.....	North avenue.....	Armitage avenue.....	Aug. 17, 1891
Walnut	Homan avenue.....	Central Park avenue...	July 7, 1891
Whipple	Colorado avenue.....	Van Buren.....	April 15, 1891
Washington	Canal.....	Halsted.....	Oct. 28, 1891
Washington.....	West Fortieth.....	West Fifty-second.....	Nov. 1, 1890
Winchester avenue.....	Ogden avenue.....	Polk.....	April 10, 1891
Zion place	Throop.....	Loomis.....	Aug. 17, 1891

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
June 11, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks ...	10,601.26	2,497.68
Aug. 11, 1891	P. Farrell.....	C. F. Cedar blocks ...	2,935.13	695.16
June 23, 1891	A. J. McBean & Co.....	C. F. Cedar blocks ...	5,667.75	1,694.68
June 13, 1891	P. Farrell.....	C. F. Cedar blocks ...	1,138.74	456.71
July 25, 1891	P. Farrell.....	C. F. Cedar blocks ...	2,335.14	700.54
Oct. 17, 1891	R. F. Conway	C. F. Cedar blocks ...	4,725.95	1,119.30
Sept. 1, 1891	Western Paving & Supply Co..	C. F. Cedar blocks ...	19,707.25	4,012.79
Oct. 24, 1891	P. Farrell.....	C. F. Cedar blocks ...	1,433.34	381.66
Oct. 16, 1891	A. J. McBean & Co.....	C. G. Cedar blocks ...	2,968.60	556.61
July 20, 1891	Western Paving & Supply Co..	C. F. Cedar blocks ...	1,507.54	542.71
July 15, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks ...	2,006.69	602.01
May 16, 1891	Garden City Paving & Post Co	C. F. Cedar blocks ...	2,039.10	611.73
June 16, 1891	Western Paving & Supply Co..	C. P. Cedar blocks ...	8,496.85	2,008.18
Sept. 8, 1891	J. B. Smith & Co.....	C. F. Cedar blocks ...	3,069.52	604.00
Oct. 5, 1891	Talbot Paving Co.....	C. C. Cedar blocks ...	1,006.44	323.50
Dec. 1, 1891	Wisconsin Central Railroad Co.	P. Cedar blocks.....	3,931.00	1,608.00
Aug. 11, 1891	R. F. Conway	C. F. Cedar blocks ...	2,498.55	619.48
June 10, 1891	P. Farrell.....	C. F. Cedar blocks ...	14,946.95	3,374.62
Aug. 28, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks ...	3,091.24	734.04
Oct. 2, 1891	R. F. Conway	C. F. Cedar blocks ...	8,634.57	2,586.06
Oct. 10, 1891	Western Paving & Supply Co..	C. F. Sheet Asphalt..	4,572.18	1,371.65
May 16, 1891	J. B. Smith & Co....	G. P. Cedar blocks....	4,383.72	1,315.12
Dec. 18, 1891	P. Farrell.....	W. P. P. Cedar blocks	9,440.00	2,110.00
July 23, 1891	Sackley & Peterson.....	W. C. P. Macadam....	36,131.86	8,557.81
June 9, 1891	J. B. Smith & Co.....	C. G. P. Macadam ...	3,894.10	922.29
Aug. 31, 1891	P. Farrell.....	C. F. P. Macadam....	2,661.92	628.80
TOTALS.....			779,406.34	242,207.71

Lineal feet paving.....236,792.55 feet, or 44.85 miles.

On unpaved streets, lineal feet curbing, filling, etc. 5,415.16 feet, or 1.02 miles.

Viaduct approaches..... 6,547.20 feet, or 1.24 miles.

GRAND TOTALS.....248,754.91 feet, or 47.11 miles.

DEPARTMENT OF PUBLIC WORKS.

SUMMARY OF STREETS IMPROVED DURING 1891.

PAVEMENT.	NORTH DIVISION, INCLUDING LAKE VIEW.			SOUTH DIVISION, INCLUDING HYDE PARK AND LAKE.			WEST DIVISION, INCLUDING JEFFERSON AND CICERO.			TOTALS.		
	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.
Cedar	190,729.44	58,834.74	11.14	425,555.52	116,473.69	23.06	690,150.25	214,513.38	40.63	1,306,435.21	399,821.81	73.82
Asphalt	28,138.87	7,608.28	1.44	13,419.04	3,549.76	0.67	47,256.47	12,253.36	2.32	88,814.38	23,411.40	4.43
Granite .....	.....	.....	.....	1,053.98	431.18	0.08	5,867.76	1,463.00	0.28	6,921.74	1,899.18	0.36
Macadam	200,085.60	60,147.50	11.39	395,735.08	127,736.72	24.20	36,131.86	8,557.81	1.62	631,953.54	196,442.03	37.21
Burnt Clay .....	.....	.....	.....	4,366.00	1,260.00	0.23	.....	.....	.....	4,366.00	1,260.00	0.23
Brick .....	.....	.....	.....	6,267.63	1,522.00	0.29	.....	.....	.....	6,267.63	1,522.00	0.29
Viaduct Approaches .....	.....	.....	.....	.....	.....	.....	.....	6,547.20	1.24	.....	6,547.20	1.24
TOTALS	418,963.91	126,590.52	23.97	846,397.25	350,973.35	47.53	779,406.34	243,339.75	46.09	2,044,757.50	630,903.63	117.59
Curb and Fill, Curb Wall and Fill, etc. ....	.....	4,127.40	0.78	.....	18,735.00	3.56	.....	5,415.16	1.02	.....	28,327.56	5.36
GRAND TOTALS .....	.....	130,717.92	24.75	.....	269,758.35	51.09	.....	248,754.91	47.11	.....	649,231.18	122.95

DISTRIBUTION OF KINDS OF PAVEMENTS.

The following shows the kind of pavement in use in each division of the city, December 31, 1891:

DIVISIONS.	Wood Block, Miles.	Macadam, Miles.	Stone, Miles.	Asphalt Block, Miles.	Sheet Asphalt, Miles.	Brick, Miles.	Burned Clay, Miles.	Grand Total, Miles.
North	110.59	43.18	.53	.....	3.11	.....	.....	157.41
South.....	116.49	190.80	21.84	3.59	1.72	.67	.23	324.84
West.....	252.16	22.33	1.47	.....	4.18	.....	.....	280.14
Viaduct Approaches...	2.39	.....	.....	.....	.....	.....	.....	2.39
TOTAL MILES	481.63	256.31	23.84	3.59	9.01	.67	.23	774.78

DEPARTMENT OF PUBLIC WORKS.

RECAPITULATION OF STREETS BY TOWNSHIPS, SHOWING PAVED AND UNIMPROVED STREETS,
AT THE CLOSE OF THE YEAR 1891.

TOWNSHIP.	Number of Miles.	Cedar Block.	Macadam.	Medina Stone.	Granite.	Sheet Asphalt.	Asphalt Block.	Brick.	Burnt Clay.	Total.	Unimproved Streets - Miles.	Repaved in 1891. Miles.
North Division.....	168.38	81.05	1.07	0.49	0.04	3.11	.....	.....	.....	85.76	82.62	2.19
South Division.....	228.78	98.00	9.51	1.70	19.64	1.72	3.59	.....	.....	129.16	99.02	1.31
West Division.	375.72	247.70	20.71	0.39	1.08	4.18	.....	.....	.....	274.06	101.66	1.77
Hyde Park.....	562.74	7.64	129.84	.....	.....	.....	.....	0.67	.....	188.15	424.59	6.27
Lake	370.19	15.85	49.75	.....	.....	.....	.....	.....	0.23	65.83	304.36	.....
Lake View.....	141.53	29.54	42.11	.....	.....	.....	.....	.....	.....	71.65	69.98	0.91
Jefferson	260.48	4.46	.....	.....	.....	.....	.....	.....	.....	4.46	256.02	.....
Cicero	89.09	.....	1.62	.....	.....	.....	.....	.....	.....	1.62	87.47	.....
Gano*.....	135.10	.....	1.70	.....	.....	.....	.....	.....	.....	1.70	133.40	.....
Viaduct approaches.....	2.39	2.39	.....	.....	.....	.....	.....	.....	.....	2.39	.....	.....
Totals	2,334.40	481.63	256.31	2.58	20.76	9.01	3.59	0.67	0.23	774.78	1,559.62	12.45

*Including Washington Heights, West Roseland and Calumet.

Table showing total miles of improved streets with percentage of each class of pavement :

PAVEMENT.	MILES.	PER CENT.
Cedar Block.....	481.68	62.16
Macadam	256.81	33.10
Medina Stone.....	2.58	0.33
Granite	20.76	2.68
Sheet Asphalt.....	9.01	1.17
Asphalt Block.....	3.50	0.46
Brick	0.67	0.08
Burned Clay.....	0.23	0.02
TOTAL	774.78	100.00

The total number of miles of pavement laid each year, from the introduction of street paving in 1855 to the present date, is given in the following review, the number of miles of paved streets in the annexed towns of Hyde Park, Lake and Lake View being added to the total of 1889. From 1835 to 1844 the work on streets consisted of grading only. From 1844 to 1855 improvements were made by planking.

Year.	Miles.	Year.	Miles.	Year.	Miles.	Year.	Miles.
1855	1.72	1865	2.03	1875	11.49	1885	38.06
1856	.26	1866	8.87	1876	10.50	1886	43.66
1857	2.62	1867	11.37	1877	12.29	1887	36.75
1858	7.20	1868	5.46	1878	11.01	1888	54.33
1859	5.70	1869	18.32	1879	6.83	1889	254.22
1860	...	1870	19.96	1880	16.84	1890	99.72
1861	.69	1871	25.63	1881	24.52	1891	117.59
1862	2.57	1872	1.82	1882	24.95	....	.....
1863	2.00	1873	10.19	1883	22.49	....	.....
1864	2.40	1874	9.07	1884	34.52	....	.....
						TOTAL....	957.65

Of this amount 182.87 miles have been repaved during the same period, which reduces the actual amount of paved streets within the corporate limits on December 31, 1891, to 774.78 miles, to which may be added 1,559.62 miles of unimproved streets, making a total of 2,334.40 miles of streets in Chicago at this date; less 2.39 miles of viaduct approaches, making a grand total of 2,332.01 miles.

REPAVING.

The amount of repaving done by the division foremen in repairing improved streets; the replacing of pavement where openings were made by gas companies, water, sewerage, fire alarm, and telegraph departments, bureau of light, etc., and on account of street permits and general repairs :

FOR WHAT PURPOSE.	NORTH DIV.	SOUTH DIV.	WEST DIV.	TOTAL.
	Square Yds.	Square Yds.	Square Yds.	Square Yds.
General Repairs.....	28,684	26,700	58,493	108,877
Gas Companies.....	54	185	156	395
Water Department.....	1,869	4,848	3,156	9,873
Sewer Department.....	216	81	1,246	1,543
City Engineer's Department.....	177	28	49	254
Bureau of Light.....	.....	16	.....	16
Street Permits.....	8,314	2,480	3,426	14,220
TOTALS.....	34,314	34,338	61,526	130,178
Amount of repaving done by contrac- } tors for street repairs for the city ... }	1,873	9,287	15,783	26,443
GRAND TOTAL.....	35,687	43,625	77,309	156,621

Total number of square yards.....156,621

The above does not include any repaving done by contractors for Gas Companies, Bureau of Light, etc.

LUMBER.

The following table shows in detail the amount of lumber used by the division foremen in the construction and repairs of aprons, culverts, crossings, etc., and also for sidewalk intersections and general repairs:

FOR WHAT USED.	NORTH DIVISION.			SOUTH DIVISION.			WEST DIVISION.		
	No.	Lumber.		No.	Lumber.		No.	Lumber.	
		No. Feet Pine.	No. Feet Oak.		No. Feet Pine.	No. Feet Oak.		No. Feet Pine.	No. Feet Oak.
<i>Street—</i>									
Aprons.....	885	119,767	.....	1,089	154,764	.....	852	118,299	.....
Crossings.....	1,065	151,788	.....	1,674	812,948	.....	747	175,558	.....
Culverts.....	755	238,355	.....	946	235,082	.....	321	202,710	.....
Drain boxes.....	85	18,508	.....	50	12,314	.....	152	37,980	.....
Steps and railings.....	136	8,652	.....	185	11,996	.....	780	32,459	.....
Sidewalk intersections..	670	140,014	.....	389	76,795	.....	1,260	291,937	.....
Sidewalk, general repairs....		344,581	.....		604,502	.....		747,698	.....
TOTALS.....	3,596	1,021,615	.....	4,333	1,408,401	.....	4,112	1,606,641	.....

RECAPITULATION.

North Division.....1,021,615 feet of lumber.

South Division.....1,408,401 feet of lumber.

West Division1,606,641 feet of lumber.

Grand Total..... 4,036,657 feet of lumber.

UNIMPROVED STREETS.

In the work of grading and ditching, the money at the disposal of this Bureau, for that purpose, has been judiciously expended in keeping unimproved streets in good, passable condition. The total length of streets graded and ditched by the division foremen amounts in the aggregate to about eight hundred and forty-six (846) miles.

The work of ditching new streets, and keeping old ditches free from stagnant waters in the unsewered territory of the city, require the expenditure of large sums of money, which ought to be provided for either by an appropriation or by special assessment.

Considerable money has been expended upon the drains in the southeastern section of the city in the effort to give the residents in that territory temporary relief.

The drainage problem at Grand Crossing and vicinity might readily be solved by the erection of a steam pump at Ninety-fifth street and Stony Island avenue, as the constant excavations made in the drainage ditch makes the bed of the same lower than Lake Calumet. Whenever the wind is from the east, the water, under existing conditions, naturally flows back into the ditch and floods the country as far as Eighty-seventh street. An appropriation by the City Council of \$15,000 for the purpose indicated would give desired and permanent relief.

IMPROVED STREETS.

STREET SWEEPING AND CLEANING.

The cleaning of the improved streets of the city during the past year has been done partly by the Department and partly by contract. During the first three and the last two months of the year the streets, owing to the changeable condition of the weather, are such that it is impossible to determine what would be a fair price to pay per mile for such work, and consequently it falls to the lot of the Department to care for them during these months. From January 1st to April 10th and from November 16th to December 31st of 1891 all the street cleaning was done by the Department employing men, carts and teams, to remove snow, slush, etc., and keep the principal street intersections of the city clean. When the weather permitted, and the streets were in a condition to admit of it, those in the First ward were swept and cleaned between 9 P. M. and 7 A. M., four-horse sweeping-machines being employed and paid at the rate of \$4.49 per mile.

The following table will show the number of miles cleaned and the cost of removing snow, slush, etc., from intersections and streets during the aforementioned months in the First ward, and the streets immediately surrounding the First ward:

MONTHS.	IMPROVED STREETS.		INTERSECTIONS.	TOTAL COST.
	Miles.	Cost.	Cost.	
January.....	173.57	\$ 5,747 05	\$ 969 00	\$ 6,716 05
February.....	361.19	10,505 80	1,225 00	11,730 80
March.....	519.00	16,436 00	.....	16,436 00
April.....	155.92	5,849 66	.....	5,849 66
November.....	37.72	1,106 18	619 50	1,725 68
December.....	60.01	2,417 27	3,418 75	5,836 02
Totals.....	1,307.41	\$42,061 91	\$6,232 25	\$48,294 16

In addition to the foregoing, the district foremen of the Department cleaned the principal streets and intersections of streets in their respective districts, the number of miles so cleaned being 485.57, at a cost of \$14,688.49.

From April 10 to November 16 all street cleaning, with the exception of macadamized roadways, was done by contract.

Prior to this year the streets of the First ward were cleaned by the Department during the entire year; but owing to the loss of the dump on the lake front grounds by injunction, in November, of 1890, it was deemed advisable to include it in the contract with the other sections of the city, and on April 8 the contract was awarded to J. F. Walsh, at \$27.50 per lineal mile. Work commenced on April 10 and closed November 16. Between those dates 1,750.21 miles were cleaned in the First ward, at a cost of \$48,130.80; and outside of the First ward 3,616.81 miles were cleaned, at a cost of \$99,462.25; making a total of 5,367.02 miles cleaned under contract, at a cost of \$147,593.07. As the cleaning of the First ward was done at night, a day corps of men and carts was employed to remove the sweepings of stores and sidewalks, which was done after the night work was completed, and on June 15 the same was established and maintained up to the expiration of the contract, at a cost to the Department of \$1,598.67.

The following tables show the number of miles cleaned by contractor under each class per month, and the cost of the same.

CLASS A (FIRST DISTRICT).

Statement of work done by contractor in cleaning First ward, from April 10th to November 16th, 1891:

MONTHS.	LINEAL FEET	MILES.	COST.
April	1,095,565	207.49	\$ 5,705 98
May.....	1,501,524	284.38	7,820 45
June	1,239,532	234.75	6,455 63
July.....	1,206,300	228.46	6,282 66
August	1,215,022	230.12	6,328 80
September.....	1,207,122	228.62	6,287 06
October.....	1,318,862	249.78	6,868 95
November	457,320	86.61	2,381 77
Totals	9,241,247	1,750.21	\$48,130 80

Total number of loads removed, 42,178. Total cubic yards, 63,267.

STATEMENT OF WORK DONE BY CONTRACTOR IN CLEANING STREETS OUTSIDE THE FIRST WARD.

1891.	CLASS B.			CLASS C.			CLASS D.			CLASS E.			CLASS F. (ALLEYS.)			TOTALS.		
	Cleaned twice each Week.			Cleaned once each Week.			Cleaned twice each Month.			Cleaned once each Month.			Cleaned once each Mo.					
	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.
MONTHS.																		
April.....	153,890	30.09	\$ 827 48	388,045	73.50	\$2,021 25	323,635	61.30	\$1,635 75	707,349	133.97	\$3,684 17	15,521	2.95	\$ 81 12	1,593,540	301.81	\$3,290 77
May.....	624,349	118.24	3,251 60	1,119,068	211.93	5,023 07	759,667	143.88	3,956 70	1,213,237	239.79	6,319 23	87,976	16.68	453 70	3,804,377	720.52	19,814 80
June.....	415,643	78.72	2,164 80	842,847	159.63	4,389 82	505,505	95.74	2,632 85	1,103,218	225.99	6,214 73	94,580	17.92	498 80	3,051,798	578.00	15,865 00
July.....	330,819	62.66	1,723 15	865,775	163.97	4,509 17	495,321	93.82	2,580 04	818,047	154.93	4,290 58	72,987	13.82	380 05	2,538,929	489.20	13,453 99
August.....	286,750	54.31	1,493 52	743,777	140.86	3,873 66	476,537	90.25	2,451 88	900,114	151.54	4,167 84	4,115	.78	21 45	2,311,298	437.74	12,087 85
September.....	377,721	71.54	1,987 35	761,729	144.26	3,987 15	463,365	87.87	2,416 43	770,315	145.89	4,011 97	27,504	5.21	143 27	2,401,204	454.77	12,508 17
October.....	301,656	57.14	1,571 35	765,979	145.07	3,989 42	434,657	81.79	2,524 23	872,144	165.18	4,549 44	.....	.....	.....	2,434,436	459.18	12,637 44
November.....	117,263	22.21	610 73	304,426	57.55	1,585 38	184,812	35.00	982 50	320,668	60.73	1,670 07	.....	.....	.....	927,139	175.59	4,323 73
TOTALS.....	2,613,091	494.91	\$13,610 03	5,791,090	1096.87	\$23,363 92	3,694,149	699.05	\$19,240 88	6,695,112	1,268.02	\$34,970 53	302,668	57.39	\$1577 39	19,094,716	3616.81	\$99,433 25

Average number of miles cleaned each month..... 459.10 Average cost for each month..... \$12,483 78
 Total number of loads removed..... 97,889 Total number of cubic yards..... 146,084

RECAPITULATION OF STREET CLEANING FOR 1891.

STREET CLEANING.	Total Number of Miles.	Average Number of Miles per Month.	Total Cost.	Average Cost per Lineal Mile.
Under contract, Classes A, B, C, D, E and F, as per schedule.....	5,867.52	670.94	\$147,598.07	\$27.50
By the Department, Class A, cleaning 1,807.41 miles and removing snow, slush, etc., and keeping intersections clean, from January 1st to April 10th, and from November 15th to December 31st, as per schedule.....	1,807.41	168.42	48,294.16	.....
By the district foremen of the Department, cleaning streets and removing snow, slush, etc., in their respective districts from January 1st to April 10th, and from November 15th to December 31st.....	485.57	80.25	14,688.49	.....
By the Department, maintaining day gang in the First ward, from June 15th to November 15th.....	.....	.....	1,598.67	.....
Cost of inspection in connection with contract .....	.....	.....	5,872.76	.....
GRAND TOTALS	7,160.50	.....	\$218,047.15	.....

PERMITS FOR OPENING STREETS.

Two thousand and fifty-nine (2,059) permits were issued to sundry persons to open improved streets. A cash deposit covering cost of replacing pavements, etc., to their original condition, was made on each permit.

Eight thousand, seven hundred and sixty-six (8,766) openings were made on improved streets by gas companies and sundry other corporations under general deposit, the work of replacing the pavements being done by contractors, subject to inspection and acceptance of the Department.

Total number of openings ten thousand, eight hundred and twenty-five (10,825).

FOR OPENING STREETS FOR THE CORRESPONDING MONTHS OF 1890-1891.

MONTH.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.	MONTH.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.
January.....	53	90	August.....	184	206
February.....	73	83	September.....	196	193
March.....	123	106	October.....	201	239
April.....	142	218	November.....	165	175
May.....	140	175	December.....	122	129
June.....	187	225			
July.....	201	225	TOTALS.....	1,787	2,059

Average number of permits issued each month.....	~1890.~ 149	~1891.~ 172
Number of permits issued for opening of streets on which deposits were made (not including openings by gas companies and other corporations on general deposit).....	1,787	2,059
Number of permits issued for opening unimproved streets by corporations.....	8,905	8,766
Total.....	10,692	10,825
Amount of cash deposits made.....	\$ 36,353 00	\$42,268 00
Amount retained for cost of repaying and inspection.....	9,459 82	12,037 75
Amount rebated to depositors.....	20,044 18	23,010 65
Amount retained on permits not settled.....	7,060 00	8,202 05
Average amount of cash deposits.....	20 35	20 52
Average amount retained for costs.....	5 29	5 85

PERMITS FOR USE OF STREETS.

Twenty-one hundred and sixty (2,160) permits were issued to sundry parties to occupy streets for the purpose of depositing materials thereon during the construction of buildings.

The number of permits issued monthly, the amount of cash deposits and revenue received, is given in the following comparative statement:

FOR THE USE OF STREETS FOR THE CORRESPONDING MONTHS OF 1890-1891.

MONTHS.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.	MONTHS.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.
January.....	91	111	August.....	175	174
February.....	174	177	September.....	190	183
March.....	279	205	October.....	214	203
April.....	208	216	November.....	149	119
May.....	238	216	December.....	92	104
June.....	231	229			
July.....	193	223	TOTALS.....	2,234	2,160

STREET DEPARTMENT.

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	—1890.—	—1891.—
Average number of permits issued each month.....	186	180
Amount of cash deposits made.....	\$13,465 00	\$14,255 00
Amount retained for use of streets as per Section 1,104 Municipal Code.	5,616 00	6,594 00
Amount rebated to depositors.....	2,753 00	3,796 00
Amount retained on permits not settled.....	5,352 00	3,865 00
Average amount of cash deposits.....	6 02	6 80
Average amount retained for use of streets.....	2 15	3 05
Total number of permits issued.....	2,284	2,160

HOUSE MOVING.

Fifteen hundred and seven (1,507) permits to move buildings were granted, of which 1,377 were for frame buildings; one hundred and forty-eight (148) for brick, and three (3) iron cable reels—the total frontage of which is 31,390 feet.

Of this number 322 were in the North Division; 643 in the South Division, and 563 in the West Division. 839 were one-story, 650 were two stories; 33 were three stories, and 3 were four stories high.

Total cash receipts, \$4,407.00.

The accompanying table shows the number and character of the buildings moved each month; the frontage occupied by the buildings moved, and the monthly receipts from this service.

HOUSE MOVING.

MONTHS, 1891.	Number Permits.	MATERIAL.			STORIES HIGH.				DIVISION.			FRONTAGE.	FEES.							Cash Receipts.
		Frame.	Brick.	Iron.	One.	Two.	Three.	Four.	West.	South.	North.		\$1.00.	\$2.00.	\$4.00.	\$5.00.	\$7.00.	\$7.50.	\$10.00.	
January.....	69	47	23	...	54	15	1	...	26	30	14	1,423	43	1	...	25	...	...	\$ 170 00
February.....	145	134	12	...	75	65	6	...	60	60	26	3,027	95	1	...	49	...	...	342 00
March.....	198	122	16	...	77	57	3	1	50	53	35	3,067	77	...	...	61	...	...	332 00
April.....	170	165	9	...	94	79	1	...	68	76	35	3,552	90	2	...	76	...	2	494 00	
May.....	189	180	9	1	100	81	8	...	60	91	39	3,898	85	1	...	103	...	...	602 00
June.....	152	147	8	1	73	75	7	...	53	74	29	3,192	69	1	1	81	...	...	480 00
July.....	186	125	12	...	71	61	3	2	47	53	37	2,794	67	...	...	63	...	1	417 00
August.....	139	122	17	...	82	56	1	...	54	54	31	2,889	79	...	...	60	...	...	379 00
September....	134	119	17	...	69	65	2	...	54	60	22	2,737	80	1	...	52	...	1	362 00	
October.....	105	99	12	...	74	36	1	...	42	49	20	2,137	63	...	...	31	1	20	325 00
November....	53	38	5	...	33	20	...	...	21	13	19	1,100	31	...	...	4	...	13	186 00
December....	77	69	8	1	37	40	...	...	33	30	15	1,574	41	1	...	11	...	24	278 00
TOTALS.....	1,507	1,377	143	3	839	650	33	3	563	643	322	31,390	320	8	1	611	1	63	4	\$4,407 00

SIDEWALKS.

The number of miles of sidewalks, new, rebuilt and repaired, including wood, stone and concrete, is shown in the following table:

DIVISION.	MATERIAL.			Total Miles.	Sidewalks Repaired.	Grand Total Miles.
	Wood, Miles.	Stone, Miles.	Concrete, Miles.			
North.....	50.17	12.01	24.65	86.83	29.14	115.97
South....	201.11	15.98	86.09	293.18	75.11	328.29
West.....	249.16	12.09	11.71	263.96	141.17	405.13
TOTALS.....	491.44	40.08	72.45	603.97	245.42	849.39

Of the above, 59.60 miles of plank was done under special assessment.

DEPARTMENT OF PUBLIC WORKS.

THE TOTAL NUMBER OF MILES OF SIDEWALKS UNDER THE CONTROL OF THE CITY AND THE SOUTH, WEST AND LINCOLN PARK COMMISSIONERS AT THE CLOSE OF THE YEAR, IS GIVEN IN THE FOLLOWING SUMMARY:

UNDER CONTROL OF	MATERIAL.			TOTAL MILES.	INCREASE OVER THE YEAR 1890.			TOTAL MILES.
	Wood, Miles.	Stone, Miles.	Concrete, Miles.		Wood, Miles.	Stone, Miles.	Concrete, Miles.	
City.....	2,731.49	203.91	148.29	3,083.69	491.44	40.08	72.45	603.97
South Park Commissioners .....	.....	15.30	11.79	27.09	.....	3.00	10.35	13.35
West Park Commissioners .....	.....	11.05	3.89	14.93	.....	.....	2.99	2.99
Lincoln Park Commissioners .....	.....	2.17	3.22	5.39	.....	.....	1.17	1.17
Totals.....	2,731.49	232.43	167.19	3,131.10	491.44	43.08	86.96	621.48
Wood Sidewalk replaced by stone and concrete.....	.....	.....	.....	82.74	.....	.....	.....	82.74
Total miles in city .....	.....	.....	.....	3,169.84	.....	Total increase .....	.....	654.22

STREET LAMPS.

CHICAGO, December 31, 1891.

MR. J. H. BURKE,

Superintendent of Streets.

DEAR SIR:—I herewith present the following statement showing the work done during the year 1891 by the City Lamp Department; also showing the cost of repairs done on lamp posts and service pipes by the different gas companies acting under orders from this Department:

GAS LAMPS PUT UP.

New gas lamps put on posts for Special Assessment Department during the year 1891, and for which payment will be made to the Gas Fund.....	1,714
New gas lamps put on posts for repairs to replace worn out gas lamps.....	1,179
Repaired gas lamps put on posts during the year 1891.....	8,573

GASOLINE LAMPS PUT UP.

New gasoline lamps put on posts and gasoline posts erected during 1891 for the Special Assessment Department, and for which payment will be made to the Gas Fund..	1,069
New gasoline lamps put on posts for repairs to replace worn out lamps during the year 1891.....	260
Repaired gasoline lamps put on posts during the year 1891.....	2,185

STREET SIGNS (BLUE GLASS, OPAL GLASS AND WOOD) PUT UP.

Number of 3x16 blue glass street signs put in gas and gasoline street corner lamps during the year 1891.....	10,802
Number of 4x18 blue glass street signs put in electric lamps during 1891.....	2,048
Number of 4x18 strips of opal glass used as backing for electric signs.....	2,048
Number of wood street signs put on posts in districts where there are no street lamps on corners.....	8,264
Number of 4x4 wood posts erected for wooden street signs to be attached thereto....	1,624
Total cost of new and repaired gas lamps made and put on lamp posts during the year 1891 (including lamps put up on orders from Special Assessment Department, and for which payment will be made to Gas Fund).....	\$19,822 25
Total cost of new and repaired gasoline lamps made and put on lamp posts during the year 1891 (including lamps put up on orders from Special Assessment, and for which payment will be made to Gas Fund)....	10,422 65

Total cost of blue glass street name signs put on gas, gasoline and electric lamps; also of wood posts and wood signs put up on districts in which there are no lamps.....	\$ 4,952 66	
Total cost of work done by this Department in connection with and incidental to the operation of gasoline lighting, such as burners, valves, atomizers, feed pipes, blow pipes, five-gallon cans, ladders, etc., etc., and the amount of which is figured in the operation of gasoline lighting.....	5,478 82	
Total amount paid to the different gas companies during 1891 for repairing and straightening gas lamp posts, and for repairing and renewing gas lamp service pipes.....	18,258 79	
Grand total.....		\$58,985 17
Deduct amount due from Special Assessment Department for work done on its orders during 1891, and for which transfer of credit will be made to the Gas Fund.....	\$ 8,905 48	
Deduct cost of work done for Gasoline Lighting Department during 1891.....	5,478 82	
		<u>14,884 30</u>
Actual net cost of repairs done during 1891 on gas lamps, gas lamp posts and gas service pipes; also on gasoline lamps and posts, as well as cost of street lamp signs put on gas, gasoline and electric lamps, and wood signs and posts put up in districts where there are no lamps.....		<u>\$39,550 87</u>

SUMMARY.

Actual net cost of repairs on gas lamps during 1891.....	\$14,680 25	
Actual net cost of repairs on gasoline lamps and lamp posts during 1891.....	6,659 17	
Actual net cost of street name signs of all kinds put up during 1891.....	4,952 66	
Actual net cost of repairs done by the different gas companies on gas lamp posts and gas service pipes, acting under orders from this Department, during 1891.....	18,258 79	
Total net cost of work done in City Lamp Shop, and by men there employed in putting up lamps, globes, domes, street name signs, etc., throughout the city, as well as cost of repairs done by the different gas companies during 1891.....		\$39,550 87
Add amount due from Special Assessment Department for work done during the year 1891.....		8,905 48
Add cost of work done for Gasoline Lighting Department during 1891.....		5,478 82
Grand total of money expended through this Department for all purposes and on different accounts during 1891.....		<u>\$58,985 17</u>

Gas, gasoline and kerosene lamps, lamp posts and lamp service pipes, repairs on which are taken care of by this Department :

Gas lamps	27,076
Gasoline lamps	4,566
Kerosene lamps.....	162
Total number.....	<u>81,804</u>

STREET DEPARTMENT.

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Actual net cost of lamp repairs of all kinds done and signs of all kinds put up during 1891.....\$39,550 87
 This shows that the actual average net cost for repairs on lamps, posts and service pipes during 1891, for each lamp and post, was 1 25

Respectfully submitted,

JOHN J. O'CONNELL,

Supt. Street Lamp Repairs.

RAILROAD GATES AND FENCES.

The ordinance of March 26, 1890, providing for the construction of fences, gates, lights, etc., at the streets intersecting the lines of the several railroads operating trains within the city limits, and regulating the speed of the same with a view to better protect the lives and property of citizens against accident, has met with general compliance. Two hundred and thirty-eight gates and 167.97 miles of fences were erected since the above date.

The accompanying table shows the work in detail done by the several railroad companies:

NAME.	FENCES CONSTRUCTED—MILES					TOTAL MILES.	GATES IN OPERATION		TOTAL GATES.
	Wall.	Board.	Picket.	Expanded Metal.	Woven Wire.		Prior to 1891.	During Year.	
Chicago, Rock Island & Pacific		0.05	7.52		1.64	9.21	43	5	48
New York, Chicago & St. Louis.....					4.50	4.50			
Illinois Central.....	4.65	0.20			19.10	23.95	19	5	24
Baltimore & Ohio.....					6.00	6.00	22		22
Chicago & Grand Trunk					3.60	3.60	1	4	5
Western Indiana			1.35		1.75	3.10	26	17	43
Wabash Railway.....					2.14	2.14			
Atchison, Topeka & Santa Fe.....					4.00	4.00	1		1
Chicago & Northern Pacific.....				2.60	8.80	11.40	20		20
Chicago, Burlington & Quincy.....			2.50		5.30	7.80	33	2	35
Chicago & Alton					1.16	1.16	7	19	26
Chicago, Milwaukee & St. Paul					13.69	13.69	30	4	34
Pittsburgh, Cincinnati, Chicago & St. Louis.....			3.20	0.86		4.06	52	4	56
Pittsburgh & Fort Wayne Railway			10.10	1.		11.10	31	5	36
Chicago & North-Western Railway.....		6.50	11.80	2.50	32.90	53.70	150	12	162
Chicago & Madison Railway								10	10
St. Charles Air Line.....							5		5
Union Stock Yards Company.....							4		4
Lake Shore & Michigan Southern.....	0.02	1.92	6.62			8.56	43	3	46
TOTAL.....	4.67	8.67	43.09	6.96	104.58	167.97	487	90	577

Railroad companies that have electric lights at their crossings:

Lake Shore & Michigan Southern.
Chicago, Rock Island & Pacific.
Illinois Central.
Pittsburgh, Cincinnati, Chicago & St. Louis.
Chicago & Grand Trunk.

Western Indiana.
Pittsburgh & Ft. Wayne.
Chicago & Alton—oil lamps.
Chicago, Burlington & Quincy—oil lamps.

A majority of the railroad companies have shown a disposition to heartily co-operate with this Department in the fulfillment of this much needed work.

STREET RAILWAYS.

During the year the different companies have laid pavement on the portions of the streets occupied by their tracks as follows:

PAVEMENT.

CORPORATIONS.	Granite Block, Square Yards.	Cobble Stone, Square Yards.	Cedar Block, Square Yards.	Ottawa Brick, Square Yards.	Total Sq. Yards.
Chicago City Railway Co.....	50,727	.....	24,417	2,400	77,544
West Chicago Street Railroad Co...	54,666	8,828	11,911	.....	74,900
North Chicago Railroad Co.....	558	2,519	18,866	.....	16,488
TOTALS.....	105,946	10,842	49,694	2,400	168,882

Street railway extensions were made by the different companies as follows:

CHICAGO CITY RAILWAY COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Thirty-ninth.....	Wentworth ave..	Halsted.	3,960	Double track, Horse.
TOTAL.....	3,960	$\frac{3}{4}$ mile.

STREET DEPARTMENT.

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WEST CHICAGO STREET RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
West Twelfth.....	Kedzie avenue...	Garfield boul....	7,560	Double track, Horse.
West North avenue..	California avenue.	West Fortieth...	15,840	Double track, Horse.
TOTAL.....	.....	.....	23,400	4 miles.

CHANGES FROM HORSE TO CABLE.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Van Buren.....	Clinton	Halsted.....	3,246	.....
Halsted....	Van Buren.....	O'Neil.....	19,234	.....
Blue Island avenue..	Halsted.....	Western avenue .	30,750	.....
TOTAL.....	.....	.....	53,230	10 miles.

NORTH CHICAGO STREET RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Chicago avenue.....	Larrabee	Milwaukee ave ..	6,792	Double track, Horse.
TOTAL.....	.....	.....	6,792	1.3 Miles.

CALUMET ELECTRIC STREET RAILWAY COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Eighty-ninth	The Strand.....	Mackinaw avenue	720	Single track, Electric.
Mackinaw avenue....	Eighty-ninth	Harbor	2,000	Single track, Electric.
Harbor	Mackinaw avenue	Ninety-third.....	930	Single track, Electric.
Ninety-third.....	Harbor	Stony Island ave.	11,330	Single track, Electric.
Stony Island avenue..	Ninety-third.....	Ninety-fifth	1,200	Single track, Electric.
TOTAL.....	.....	.....	16,180	3.06 miles.

CICERO AND PROVISO ELECTRIC STREET RAILWAY COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
West Madison	Fortieth	Fifty-second	15,840	Double track.
West Lake	Forty-eighth.....	Fifty-second	5,280	Double track.
West Forty-eighth ...	West Madison...	West Lake	4,800	Double track.
TOTAL.....	.....	.....	25,420	4.80 miles.

CHICAGO AND SOUTH SIDE RAPID TRANSIT RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Alley	Congress, bt. State and Wabash av.	Twenty-first.....	8,000	Double track, Elevated.
TOTAL.. .....		.....	8,000	1.51 miles.

REPORT OF WORK FINISHED IN 1890 AND 1891 WHICH COMPLETES TO DATE.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Alley.....	Congress, bt. State and Wabash av.	Thirty-seventh...	17,455	Double track, Elevated.
TOTAL.....		.....	17,455	3.3 miles.

WEST LAKE STREET ELEVATED RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Lake	May.....	Ada	1,160	
TOTAL.....	.....	.....	1,160	0.22 miles.

NUMBER OF MILES OF HORSE AND CABLE IN SERVICE.

CORPORATIONS.	Cable.	Horse.	Total Miles.
Chicago City Railroad Company.....	34.16	118.96	148.12
North Chicago Street Railroad Company	17.10	64.50	81.60
West Chicago Street Railroad Company.....	17.00	125.89	142.89
Calumet Electric Street Railway Company.....			4.05
Cicero and Proviso Electric Street Railway Company			4.80
Chicago and South Side Rapid Transit Company.....			3.80
West Lake Street Elevated Railroad Company			1.05
South Chicago City Railway Company			5.66
Total Miles.....			391.47

Respectfully submitted,

J. H. BURKE,

Superintendent of Streets.

REPORT
OF THE
Bureau of Special Assessments
CITY OF CHICAGO



BUREAU OF SPECIAL ASSESSMENTS.

CHICAGO, December 31, 1891

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR:—I submit herewith, in tabular form, a statement of special assessments made in this Department during the past year, with a summary of the estimated cost of the same; also the amount of special assessments made in each year during the past thirty-one years.

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12371	C. F. and Paving.	Lock	Archer avenue	Fuller	\$ 9,718 53
12372	C. F. and Paving.	Lydia	Desplaines	Halsted	4,701 77
12374	C. F. and Paving.	West Chicago avenue.	Leavitt	California avenue	32,073 70
12388	C. G. and Paving.	Alley	Noble and C. & N. W. R'y.	between Bradley and Sloan	1,674 20
12389	C. G. and Paving.	Alleys.	Bradley and Blackhawk	Cleaver and Noble	2,885 88
12390	C. G. and Paving.	Alley	Block 8	Fractional Section 8, 89, 14	1,831 10
12391	C. G. and Paving.	West Twenty-sixth.	Lawndale avenue	Hamlin avenue	4,893 85
12407	C. F. and Paving.	Sacramento avenue.	West Van Buren	West Twelfth	34,620 85
12413	C. G. and Paving.	Ogden avenue.	Millard avenue	Crawford avenue	16,789 12
12417	C. G. and Paving.	Alley	Blocks 5 and 6	Lee's Addition	8,250 45
12423	C. G. and Paving.	Desplaines	West Harrison	West Polk	3,587 63
12436	C. G. and Paving.	Alley	Douglas ave. and Thirty-seventh	bet. Indiana ave. and Prairie ave.	4,417 80
12437	C. G. and Paving.	Alley	Prairie ave. and Campbell ave.	bet. W. Madison and Warren ave.	1,519 20
12438	C. G. and Paving.	Alley	Prairie ave. and Calumet ave.	bet. Twenty-ninth and Kay	1,312 06
12439	C. G. and Paving.	Alleys	Twenty-fourth to Twenty-fifth.	bet. Indiana ave. and Prairie ave.	2,004 17
12441	C. G. and Paving.	Alley	Twentieth to Twenty-first	bet. Indiana ave. and Prairie ave.	1,174 05
12445	C. G. and Paving.	Alley	Block 3	Bickerdike's Addition	1,171 12
12446	C. F. and Paving.	Page	West Kinzie	Ainslie avenue	2,670 83
12447	C. G. and Paving.	Alley	Thirty-fourth and Douglas ave.	bet. South Park av. & Vernon av.	1,968 04
12448	C. F. and Paving.	Earl	Shields avenue	Stewart avenue	1,509 58
12449	C. G. and Paving.	Alley	Sub-block 2, Block 28.	Section 83, 40, 14.	2,031 07
12472	C. G. and Paving.	Alley	Block 2	Magee & High's Addition.	1,753 81
12474	C. F. and Paving.	Sheridan avenue.	West Twelfth	Filmore.	5,663 57
12476	C. F. and Paving.	Wabansia avenue.	Robey	Milwaukee avenue	5,960 37
12477	C. G. and Paving.	Alley	North ½ Block 3	Sec. 7, 89, 14	1,973 23
12494	C. G. and Paving.	Alleys.	Block 8	Bickerdike's Addition.	1,177 20
12514	C. G. and Paving.	Alley	North ¼ Block 60	Section 7, 89, 14	1,840 52
12515	C. F. and Paving.	South Dearborn.	Egan avenue.	Root	12,922 11
12516	C. F. and Paving.	Hoffman avenue.	Fullerton avenue	Humboldt Park boulevard	10,453 56
12517	C. F. and Paving.	Butterfield	Egan avenue	Root	18,874 80
12550	C. F. and Paving.	Drake avenue.	Central Park boulevard.	West Ohio.	4,848 66
12551	Grading and Paving.	Dean	Paulina	Brigham	2,335 65
12552	C. G. and Paving	Alley	South ¼ Block 20	Section 7.	1,413 60
12553	C. F. and Paving.	Leavitt	Armidge avenue	Asylum place.	14,674 40
12554	C. F. and Paving.	Thomas.	Western avenue	Seymour.	6,362 63
12555	C. F. and Paving.	Dickson.	North avenue	Wabansia avenue	8,261 78

12556	C. F. and Paving.	Haynes court.	Archer avenue	Lyman	13,787 26
12557	C. F. and Paving.	Parnell avenue.	Twenty ninth	Thirty-first.	12,289 25
12558	C. F. and Paving.	Gross avenue.	Loomis.	Forty-seventh	17,641 37
12559	C. F. and Paving.	Winter.	Forty-seventh	Garfield boulevard.	43,310 61
12560	Paving.	Julian.	Ashland avenue	Wood	6,532 95
12562	C. F. and Paving.	Wabansia avenue.	Milwaukee avenue	Western avenue	16,555 40
12632	C. F. and Paving.	Johuston avenue.	California avenue.	Humboldt Park boulevard.	18,136 17
12633	C. F. and Paving.	Alley.	Spring to Twenty-ninth	between State and Dearborn.	2,979 83
12637	C. F. and Paving.	Turner avenue.	Douglas Park boulevard.	Ogden avenue.	21,948 43
12640	C. F. and Paving.	Alley.	South ½ Block 45	Section 7, 89, 14.	1,351 25
12641	C. F. and Paving.	Millard avenue.	West ½ Twenty-sixth	West Twenty-eighth	12,407 82
12642	C. F. and Paving.	Wright	Sixty-seventh.	Sixty-ninth.	8,791 10
12643	C. F. and Paving.	West Congress.	Albany avenue	Kedzie avenue	6,039 40
12644	C. G. and Paving.	Alleys.	West ½ Block 41	Section 88, 40, 14.	1,748 81
12648	C. G. and Paving.	C. G. and Paving.	Block 2 and 20, Smith's Sub. in	Section 18, 39, 14.	2,140 10
12660	C. G. and Paving.	Leavitt.	North avenue	Wabansia avenue	6,565 45
12661	C. G. and Paving.	East, North and South Alley.	Block 11.	Section 17, 39, 14	1,478 91
12663	C. G. and Paving.	Alleys.	Block 13.	Elston's Addition.	2,015 60
12663	C. F. and Paving.	Quinn.	Archer avenue	Thirty-first	22,283 48
12664	Grading and Paving.	Commercial avenue.	Eighty-seventh.	Ninetieth	11,550 65
12665	C. G. and Paving.	Alley.	Twenty-second to Twenty-third.	between Calumet ave. and South Park ave.	2,091 20
12672	Curbing and Paving.	Prairie avenue.	Twenty-sixth.	Thirty-first.	29,842 36
12710	C. G. and Paving.	Ashland avenue.	Belmont avenue	Graceland avenue.	407 53
12712	C. G. and Paving.	Forty-third.	State.	Illinois Central R. R.	988 21
12716	C. F. and Paving.	West Twenty-sixth.	Sacramento avenue	Lawndale avenue.	50,305 15
12720	Grading and Paving.	Twenty-third place.	Westworth avenue.	Archer avenue.	11,167 75
12722	C. F. and Paving.	West Congress.	Rockwell	Sacramento avenue	26,686 07
12723	C. G. and Paving.	Alleys.	West ½ Blocks 98 and 94.	West ½ Section 27, 39, 14.	8,511 60
12724	C. F. and Paving.	Albany avenue	Ogden avenue.	Douglas Park boulevard.	13,359 72
12725	C. G. and Paving.	Alley.	Twenty-fifth to Twenty-sixth	between Indiana avenue and Prairie avenue.	2,029 80
12731	C. F. and Paving.	Twenty-seventh	Portland avenue	Stewart avenue.	4,783 23
12732	C. F. and Paving.	Leavitt.	Asylum place.	Fullerton avenue	21,616 90
12742	C. F. and Paving.	Albany avenue	Colorado avenue.	West Harrison.	15,648 01
12746	C. G. and Paving.	Alleys.	Block 1.	Bowen's Sub. 3, 88, 14.	1,860 00
12747	C. F. and Paving.	Douglas avenue.	Archer avenue	Western avenue.	21,229 95
12748	C. F. and Paving.	Swift place.	Westworth avenue.	Stewart avenue.	8,540 45
12752	C. F. and Paving.	Mantene court.	Milwaukee avenue.	Southern terminus	8,589 16
12753	C. F. and Paving.	Blanche.	Ashland avenue	Noble	7,572 80
12754	C. F. and Paving.	Hoynes avenue.	Asylum place	Fullerton avenue	19,404 73
12755	C. G. and Paving.	Forty-fifth.	State	Grand boulevard	17,680 11
12765	C. G. and Paving.	Central Park avenue.	West Madison.	West Harrison.	25,683 06
12766	C. G. and Paving.	Alley.	Block 6.	Millard and Decker	2,016 21

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12767	C. F. and Paving.	Cross	Lyman	Thirty-first	\$ 4,469 00
12768	C. G. and Paving.	Kedzie avenue	North avenue	Augusta	38,926 00
12769	C. F. and Paving.	Albany avenue	West Twelfth	Douglas Park boulevard	12,085 05
12770	C. F. and Paving.	Clarinda	Holt	Ashland avenue	4,085 48
12771	C. G. and Paving.	Addison avenue	North Clark	Ashland avenue	38,988 54
12775	C. F. and Paving.	Binzo	Elston avenue	Lister avenue	2,771 06
12776	C. F. and Paving.	Gloy place	Elston avenue	Lister avenue	2,555 47
12777	C. F. and Paving.	South Hedwig's avenue	Asylum place	Pulaski	10,099 90
12778	C. F. and Paving.	Kuebe place	Elston avenue	Lister avenue	2,764 52
12806	C. F. and Paving.	Jane	Western avenue	California avenue	22,111 28
12807	C. F. and Paving.	Forty-fifth	Wentworth avenue	Stewart avenue	11,811 60
12808	C. F. and Paving.	Robey	West Eighteenth	Blue Island avenue	39,458 99
12813	C. F. and Paving.	Egan avenue	Wentworth avenue	Halsted	46,884 89
12821	C. G. and Paving.	Indiana avenue	Egan avenue	Forty-third	21,129 55
12826	C. F. and Paving.	Potomac avenue	Leavitt	Western avenue	2,771 13
12827	C. F. and Paving.	Ashland avenue	Egan avenue	Garfield boulevard	84,977 51
12829	C. F. and Paving.	Moore	Division	Elm	2,038 90
12830	C. F. and Paving.	East 34 feet of West 40 feet of Western ave.	Illinois and Michigan canal	Egan avenue	26,586 70
12831	C. F. and Paving.	Archer avenue	South branch Chicago river	Western avenue	7,844 25
12832	C. G. and Paving.	West Randolph	South branch Chicago river	Desplaines	36,895 85
12841	C. G. and Paving.	Noble avenue	North Clark	Sheffield avenue	10,475 68
12844	Grading and Paving.	Fairfield avenue	West Lake	West Kinzie	6,525 11
12845	C. G. and Paving.	Alley in south ½ Block 43, Sec.	7, 39, 14	Western avenue	1,880 65
12846	C. F. and Paving.	Bremen place	Robey	Western avenue	29,287 78
12864	C. G. and Paving.	Alleys, Block 11	C. T. Subd. Sec. 17, 39, 14	Western avenue	2,905 21
12868	C. G. and Paving.	North alley	Block 17, C. T. Subd. Sec. 17,	39, 14	2,098 16
12875	C. F. and Paving.	Fulton	Hamlin avenue	Columbia place	8,478 44
12876	C. G. and Paving.	East north and south alley in	Block 15, C. T. Subd. Sec. 17,	39, 14	1,058 95
12877	C. G. and Paving.	Alley in south ½ Block 54, C. T.	Subd. Sec. 17,	39, 14	1,811 92
12900	C. F. and Paving.	Churchill	Robey	Leavitt	11,707 53
12901	C. F. and Paving.	Coblentz	Robey	Leavitt	14,209 46
12902	C. F. and Paving.	Frankfort	Robey	Leavitt	14,606 96
12903	C. F. and Paving.	Rhine	Leavitt	Western avenue	13,217 11
12910	C. G. and Paving.	Alleys	in Block 53	Carpenter's Addition	2,230 21
12911	C. G. and Paving.	North and south alley	Block 14, C. T. Sub., Sec. 17,	39, 14	1,121 26
12912	C. G. and Paving.	Alley	North ½ Block 47, C. T. Subd.	Section 17, 39, 14	1,954 08

12918	C. G. and Paving.	Alley	Desplaines	Halsted, etc.	2,891 68
12990	C. F. and Paving.	Lincoln avenue.	Belmont avenue.	Addison avenue	633 93
12964	C. F. and Paving.	Fifth avenue.	Douglas avenue.	Thirty-seventh	9,963 92
13015	C. G. and Paving.	Alley	Pauline and Lull place.	Milwaukee ave. and Moorman	877 35
13026	C. G. and Paving.	West Congress.	Ashland avenue.	Ogden avenue.	20,604 77
13032	C. G. and Paving.	Wagram.	Halsted	Racine avenue.	16,162 62
13033	C. F. and Paving.	Fillmore.	Western avenue.	Campbell avenue	5,087 26
13035	C. G. and Paving.	Alley	Thirty-first to Thirty-second	Indiana ave. to Prairie ave.	1,646 80
13036	C. F. and Paving.	Penn.	Division	Vedder	2,851 00
13037	C. G. and Paving.	Alley in west ½ Block 43.	at T. Sub. of N. ½ and E. ½, S. E. ¼, and E. ½ S. W. ¼, Section 33, 40, 14.		2,328 75
13039	C. G. and Paving.	Alley	Sub-block 8, Block 5.	Sheffield's Addition.	2,735 08
13040	C. G. and Paving.	Alley	Wisconsin and Centre, bet. Cleve-	land avenue and Hudson avenue.	2,380 86
13157	C. F. and Paving.	Washtenaw avenue.	West Lake	West Kinzie.	8,158 90
13158	C. F. and Paving.	Maud avenue.	Racine avenue.	Sheffield avenue.	16,578 97
13159	C. G. and Paving.	Alleys in subdivision.	Block 29.	C. T. Sub., W. ½ Section 5.	1,371 00
13160	C. G. and Paving.	Alley	Thirty fourth and Douglas ave.	bet. Michigan avenue and Indiana avenue.	2,189 01
13169	C. F. and Paving.	Zion place.	Throop	Loomis.	5,088 47
13170	C. F. and Paving.	Wright	Stewart avenue.	Canal.	3,468 91
13172	C. F. and Paving.	Alice place	Western avenue.	Powell avenue.	3,695 50
13196	C. F. and Paving.	Byron	California avenue.	Humboldt boulevard.	11,088 15
13197	C. G. and Paving.	Alley	Block 3, Bauman and Hoffman's Addition.		2,852 16
13198	C. G. and Paving.	Alley	Twenty-third and Twenty fourth	bet. Wabash avenue and Michigan avenue.	2,041 30
13199	C. G. and Paving.	Alley	Block 2.	D. S. Lee's addition.	3,073 05
13204	C. G. and Paving.	North Centre.	West Kinzie.	Austin avenue.	2,999 21
13205	C. G. and Paving.	West Washington.	Canal	Halsted.	16,574 42
13208	C. F. and Paving.	Armitage avenue.	California avenue.	Kedzie avenue.	21,490 66
13212	C. G. and Paving.	Alley	Block 19.	Duncan's addition.	1,442 77
13237	C. F. and Paving.	Wallace.	Egan avenue.	Fortieth.	6,748 91
13244	C. F. and Paving.	Melrose.	Halsted	Evanston avenue.	7,835 90
13249	C. F. and Paving.	Cicero court.	West Van Buren.	West Congress.	2,090 84
13261	C. G. and Paving.	Albany avenue.	Douglas boulevard.	West Twelfth.	21,559 78
13265	C. F. and Paving.	Jane.	Hoynes avenue.	Leavitt.	6,824 07
13313	C. G. and Paving.	Alley	West ½ Block 53.	C. T. Sub., Section 33-40-14.	2,867 45
13314	C. G. and Paving.	Alley	East ½ Block 43.	C. T. Sub., Section 33-40-14.	2,352 11
13315	C. F. and Paving.	Robey.	West Twelfth.	West Thirteenth.	5,439 31
13319	C. G. and Paving.	Cornelia.	Ashland avenue.	Wood.	7,571 93
13332	C. G. and Paving.	Alleys.	Block 9, C. T. Sub. W. ½ and	W. ½ N. E. ¼ Sec. 17, 39, 14.	3,592 52
13334	C. F. and Paving.	Edgar	North avenue.	West Clybourn place.	23,744 07
13335	C. F. and Paving.	Commercial	North avenue.	Armitage avenue.	31,853 43
13337	C. F. and Paving.	Cooper	Clybourn avenue.	Fullerton avenue.	4,219 47
13341	C. G. and Paving.	Alleys.	Block 16.	Ogden's addition	1,121 90
13312	C. F. and Paving.	Courtland.	Robey	Leavitt.	11,972 50

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
13845	C. G. and Paving.	Alley	North Centre ave. and Elizabeth	West Erie and West Ohio.	\$ 2,086 04
13846	C. G. and Paving.	Alleys.	Sub-block 1, Taylor's Sub. Block	l, A. D., etc.	2,042 58
13847	C. G. and Paving.	Alley	Sub-block 8, Taylor's Sub. Block	l, A. D., etc.	2,052 07
13848	C. G. and Paving.	Alleys.	Sub-block 4, Taylor's Sub. Block	l, A. D., etc.	2,044 10
13849	C. G. and Paving.	Alleys.	Sub-block 5, Taylor's Sub. Block	l, A. D., etc.	1,947 04
13850	C. G. and Paving.	Alleys	Ada and Noble	West Erie and West Ohio	1,481 82
13853	C. G. and Paving.	Alley.	Block 18	Kinzie's addition	1,180 48
13854	C. G. and Paving.	East, north and south alley	Wilnot ave. and Armitage ave.	west of Leavitt	2,613 19
13856	C. G. and Paving.	Alley	Eighteenth to Nineteenth.	bet. Center avenue and Allport	2,908 84
13857	C. F. and Paving.	Lewis	Fisk	Center avenue	7,523 74
13862	C. G. and Paving.	Alleys	Wrightwood avenue.	Diversey avenue	10,871 24
13863	C. G. and Paving.	Alleys	Block 1	Ulrich & Muhle's Addition	2,616 74
13864	C. G. and Paving.	Alley	Burton place and North avenue.	Dearborn ave. and North State	2,088 40
13866	C. G. and Paving.	Gehrke avenue	North Clark	Sheffield avenue	7,624 60
13867	C. G. and Paving.	Alley	Sub-block 2, Block 40	C. T. Sub., W. 1/2, etc., Sec. 17.	1,485 98
13868	Grading and Paving.	Pearson	North Franklin	North Market	2,180 00
13869	C. F. and Paving.	First alley.	West of Milwaukee avenue, bet.	Armitage ave. and Cornelia	5,979 80
13870	C. F. and Paving.	Church place	Archer avenue	Fuller	5,845 16
13871	C. G. and Paving.	Alleys.	Block 80, W. 1/2 and W. 1/2 N. E.	1/2, Section 17	8,195 21
13883	C. G. and Paving.	Warren avenue.	Garfield Park	Crawford avenue.	4,623 10
13884	Grading and Paving.	Sheldon.	Washington boulevard	West Randolph.	2,828 79
13887	C. G. and Paving.	Hobbie	Sedgwick	Larrabee.	7,468 74
13889	C. F. and Paving.	West Ohio	Robey	Western avenue	20,111 81
13890	C. F. and Paving.	Wabansia avenue.	Elston avenue.	Ashland avenue	9,543 85
13891	C. F. and Paving.	Desplaines.	West Monroe.	West Adams	2,947 68
13892	C. F. and Paving.	West Sixteenth.	Canal	Halsted	81,678 48
13893	C. F. and Paving.	Alley	Finest avenue to its western terminus.	Next north of Aldine square	1,274 07
13894	C. G. and Paving.	Burling.	Garfield avenue	Webster avenue	4,768 44
13895	C. G. and Paving.	Grove court.	Larrabee	Orchard	4,676 59
13896	C. F. and Paving.	Richmond	West Chicago avenue	West Division	21,375 77
13898	C. F. and Paving.	Osborne	West Indiana	West Ohio	3,908 47
13400	C. F. and Paving.	West Twenty-first.	Jefferson.	Union	8,649 86
13401	C. F. and Paving.	Mather	Clinton	Jefferson	2,381 84
13402	C. F. and Paving.	Sebor.	Clinton	Jefferson	2,850 94
13403	Grading and Paving.	West Harrison.	Clinton.	Halsted	5,682 20
13404	C. G. and Paving.	Sedgwick.	Erie.	Chicago avenue	9,002 53

18405	C. G. and Paving.	Lincoln avenue.	Sheffield avenue.	Belmont avenue.	28,612 65
18406	C. F. and Paving.	Norwood avenue.	Kedzie avenue.	Homan avenue.	10,970 92
18407	C. F. and Paving.	Hamlin avenue.	West Chicago avenue.	North avenue.	44,889 38
18408	C. F. and Paving.	Jefferson.	West Twelfth.	West Fifteenth.	8,880 41
18409	C. F. and Paving.	Pleasant.	Division.	Vedder.	2,721 17
18410	C. F. and Paving.	Ontario.	Eighty-ninth.	South Chicago avenue.	50,705 08
18411	C. F. and Paving.	West Kinzie.	Jefferson.	May.	18,921 58
18415	C. G. and Paving.	The Alleys.	Blocks 9 and 10.	Brand's addition.	8,088 43
18419	C. G. and Paving.	Alley.	Twenty-seventh to Thirty-third.	Wentworth avenue and South La Salle.	11,846 32
18423	C. F. and Paving.	Jane.	Ashland avenue.	Newton.	10,920 00
18424	C. F. and Paving.	Kedzie avenue.	West Van Buren.	West Twelfth.	35,874 84
18425	C. F. and Paving.	Powell.	Milwaukee avenue.	Fullerton avenue.	20,786 89
18429	C. F. and Paving.	Western avenue.	Fullerton avenue.	Belmont avenue.	46,590 67
18438	C. F. and Paving.	Western avenue.	West Chicago avenue.	North avenue.	52,280 84
18436	C. G. and Paving.	Wellington.	Sheffield avenue.	Southport avenue.	24,748 04
18441	C. F. and Paving.	Stearns.	Halsted.	Main.	17,463 55
18446	C. G. and Paving.	Newport avenue.	Sheffield avenue.	Halsted.	8,324 86
18449	C. F. and Paving.	Fairfield avenue.	Hirsch.	North avenue.	8,829 09
18450	C. F. and Paving.	Hoyle avenue.	West Eighteenth.	West Twenty-second.	18,760 34
18454	C. F. and Paving.	Myrtle.	Ashland avenue.	West Taylor.	3,427 66
18462	C. G. and Paving.	Alley.	Thirty-second, 150 ft. north of Thirty-third.	Prairie avenue and Forrest avenue.	1,270 83
18488	C. G. and Paving.	Alley.	Ashland avenue and Paulina.	West Superior and West Chicago avenue.	2,472 87
18531	C. G. and Paving.	Alley.	East ½ Block 51, C. T. Sub.	Section 33, 40, 14.	2,676 20
18538	C. G. and Paving.	North and south alley.	Block 3.	Newberry's addition.	669 36
18586	C. G. and Paving.	Alley.	East ½ Block 42, C. T. Sub.	Section 38, 40, 14.	2,997 34
18587	C. G. and Paving.	Alleys.	East ½ Block 31, C. T. Sub.	Section 38, 40, 14.	1,213 98
18579	C. G. and Paving.	Alley.	Oakenwald avenue, 925 ft. north.	Oakenwald avenue and Lake ave.	2,439 74
18580	C. G. and Paving.	East and west alley.	Halsted and Union.	Maxwell and Liberty.	1,021 74
18581	C. G. and Paving.	Alleys.	Block 12.	Ashland 2nd Addition.	1,794 23
18582	C. G. and Paving.	Alley.	Lake and Oakenwald avenue.	Forty-second and Orchard.	3,753 82
18588	C. G. and Paving.	Kenner place.	Orchard.	Larrabee.	3,704 15
18584	C. G. and Paving.	Flournoy.	California avenue.	Francisco.	2,724 39
18586	C. F. and Paving.	Alley.	Block 11, McKeynolds' Sub.	Section 6, 39, 14.	2,605 80
18605	C. G. and Paving.	Alley.	in North ½ Block 68, C. T. Sub.	Section 21, 39, 14.	955 14
18632	C. F. and Paving.	Ashland avenue.	Fifty fifth.	Fifty-ninth.	22,894 54
18638	C. F. and Paving.	Berlin.	Hoyle avenue.	Western avenue.	21,866 45
18644	C. G. and Paving.	Burling.	Wrightwood avenue.	Dewey court.	6,007 03
18646	C. F. and Paving.	Douglas Park place.	Fairfield avenue.	California avenue.	3,657 31
18697	C. G. and Paving.	Seminary avenue.	Centre.	Maud avenue.	5,084 17
18698	C. G. and Paving.	Alleys.	North ½ Blocks 61, 62, 63 and 64.	Section 7, 39, 14.	7,620 10
18699	C. G. and Paving.	Alley.	Holt to C. & N-W. R'y, next	north of North avenue.	1,220 30
18700	C. G. and Paving.	Alleys.	Block 11.	Brand's addition.	1,369 86

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
18701	C. G. and Paving.	Alley.	West ½ Block 8.	C. T. Sub., Sec. 17, 89, 14.	\$1,354 98
18702	C. G. and Paving.	North and South Alley.	Block 5.	Owsley's Sub., Section 18, 89, 14	1,025 69
18703	C. G. and Paving.	Alley.	North ¼ Block 12	C. T. Sub., Section 7, 89, 14.	2,234 14
18704	C. G. and Paving.	North and South Alley.	Block 1.	Ashland Addition.	746 74
18705	C. G. and Paving.	First Alley north of Washington boulevard.	Elizabeth.	Willard place.	1,497 17
18706	C. G. and Paving.	Armour avenue.	Twenty-fifth	Twenty-sixth.	5,926 85
18717	C. F. and Paving.	Fifty-third	Cottage Grove avenue	Drexel avenue.	4,445 08
18718	C. F. and Paving.	Owasco	Washenaw avenue	California avenue.	5,661 35
18719	C. G. and Paving.	The alley	Thirty-third and Douglas avenue	Calamed avenue and South Park avenue.	4,180 84
18720	C. G. and Paving.	School	North Clark	Halsted.	4,432 60
18721	C. G. and Paving.	The alley	Block 45.	Original town of Chicago.	1,888 81
18722	C. F. and Paving.	Wabansia avenue.	Western avenue	Basil avenue.	87,692 00
18723	C. F. and Paving.	Harvard	Campbell avenue	California avenue.	17,014 92
18724	C. F. and Paving.	Otis	Division	Vedder.	2,762 05
18725	C. F. and Paving.	Commercial avenue.	South Chicago avenue	Ninety-sixth.	17,894 15
18726	C. F. and Paving.	Thirty-eighth	Stewart avenue.	Laurel.	86,939 77
18727	C. F. and Paving.	Edbrooke place.	Western avenue	Powell avenue.	3,968 80
18728	C. F. and Paving.	Ashland avenue	Egan avenue.	Garfield boulevard.	224 83
18780	C. G. and Paving.	Alley	in Block 2.	State Bank Sub., Sec. 4, 89, 14.	2,471 70
18735	C. G. and Paving.	Alleys.	Block 1.	Bowen's Sub., Sec. 8, 88, 14.	214 98
18789	C. G. and Paving.	Elizabeth	West Madison.	West Randolph.	9,732 89
18740	C. G. and Paving.	Racine avenue	Belmont avenue.	Roscoe	8,524 31
18741	C. F. and Paving.	Hoynes avenue.	Milwaukee avenue	Armitage avenue.	19,624 15
18776	C. G. and Paving.	Alley	West Indiana and West Ohio	Carpenter and Morgan	1,066 15
18851	C. G. and Paving.	Central Park avenue.	Central Park boulevard.	West Ohio.	5,787 64
18852	C. G. and Paving.	Berteau avenue.	Ashland avenue	North Clark.	6,522 51
18853	C. F. and Paving.	Rosebud avenue	Western avenue	Bloomingsdale road.	8,256 06
18854	C. F. and Paving.	Hickory	Main	Cologne	10,988 51
18855	C. F. and Paving.	Upton	Milwaukee avenue.	Western avenue	6,019 87
18856	C. G. and Paving.	Homer	Robey.	Hoynes avenue.	6,912 72
18857	C. F. and Paving.	Hamlin avenue.	West Twenty-sixth	West Twenty-seventh	5,951 62
18858	C. F. and Paving.	Michigan	Frankisco.	California avenue.	5,687 18
18859	C. G. and Paving.	Lexington	Clark.	Rush.	6,777 48
18860	C. F. and Paving.	Eighteenth place	Johnson	Brown.	8,696 77
18862	C. G. and Paving.	Larrabee	Denning court	Federick	2,776 77
18864	C. F. and Paving.	Garfield avenue	Racine avenue.	Herdon.	4,604 01

13895	C. F. and Paving.	Lunn court	Western avenue	Eastern terminus	5,737 61
13897	C. F. and Paving.	Purple	Archer avenue	Twentieth	12,953 93
13911	C. F. and Paving.	Star avenue	Robertson avenue	Southern terminus	3,416 34
13912	C. F. and Paving.	Robertson avenue	Illinois Central R. R.	Grace avenue	2,502 00
13914	C. F. and Paving.	Fifty-ninth	State	South Park avenue	17,416 29
13915	C. G. and Paving.	Ontario	North Clark	St. Clair	82,905 71
13916	C. G. and Paving.	West Jackson	Halsted	Canal	20,586 56
13917	C. G. and Paving.	Alley	Block 28	School Section Addition	1,279 27
13933	C. G. and Paving.	Alley	in Block 17	Elston's Addition to Chicago	3,499 07
13936	C. G. and Paving.	Alleys	in Block 20, W. ½ and W. ½ and	W. ½, N. E. ¼, Sec. 17, 39, 14	3,297 21
13937	C. F. and Paving.	Forrest avenue	Fullerton avenue	Humboldt Park boulevard	10,446 77
13938	C. F. and Paving.	Lester avenue	Asylum place	Robey	14,408 42
13939	C. F. and Paving.	Stephens	West Jackson	West Van Buren	4,547 31
13940	C. F. and Paving.	Sobieski avenue	Asylum place	Fullerton avenue	13,078 45
13941	C. G. and Paving.	Alley	in Sub-block 1, Block 37 in C. T. Sub. N. ½	& N. ½ S.E. ¼ & E. ½ S.W. ¼, Sec. 33, 40, 14	2,155 70
13942	Grading and Paving.	Sheldon	Washington boulevard	West Randolph	350 00
13943	C. G. and Paving.	Alley	in Block 12, C. T. Sub., S. E. ¼	¼, Section 17, 39, 14	2,973 43
13944	C. G. and Paving.	Harrison	C. R. I. & P. R'y.	South branch Chicago river	3,277 71
13945	C. G. and Paving.	Fifth avenue	Harrison	Park	4,182 50
13948	C. G. and Paving.	North and south alley	Sub-blocks 3 and 6	Block 4, Sheffield's Addition	4,331 80
13979	C. F. and Paving.	Belmont avenue	Western avenue	Milwaukee avenue	65,375 17
13982	C. F. and Paving.	Butler	Twenty-fourth	Thirty-first	25,120 60
13986	C. F. and Paving.	Twenty-seventh	Portland avenue	Stewart avenue	364 84
14006	C. G. and Paving.	Alley	South ½ Block 36	School section Addition	1,091 80
14007	C. F. and Paving.	Lawndale avenue	West Twenty-second	C. B. & Q. R. R.	1,723 77
14008	C. G. and Paving.	Alley	West Van Buren	West Congress	1,082 97
14009	C. G. and Paving.	East and west alley	in Blk. 15, C. T. Sub. W. ½ Sec. 17, 39, 14 W.	Adams & Jackson, bet. Centre st. & Aberdeen	2,493 90
14010	C. G. and Paving.	East and west alley	in Block 12, C. T. Sub., W. ½	Sec. 17, 39, 14	2,674 98
14051	C. G. and Paving.	North, east and west alley	in Blk. 3, Ashland 2d add., Winchester st. and	Lincoln, between Madison and Monroe	641 51
14053	C. G. and Paving.	Alley	in South ½ Block 27	C. T. Sub., Section 7, 39, 14	3,208 79
14053	C. F. and Paving.	West, north and south alley	Churchill	Armitage ave. east of Leavitt	3,076 63
14186	C. F. and Paving.	Spring	State	Wentworth avenue	7,880 59
14199	C. F. and Paving.	Fifty-seventh	Wentworth avenue	Halsted	33,503 50
14208	C. F. and Paving.	Joseph	Archer avenue	Hickory	7,881 24
14311	C. G. and Paving.	Twelfth	Michigan avenue	Indiana avenue	1,603 31
14313	C. F. and Paving.	Western avenue	Blue Island avenue	Illinois and Michigan Canal	33,407 75
14313	C. F. and Paving.	Wallace	Fortieth	Forty-third	16,405 05
14314	C. G. and Paving.	Alley	Thirtieth	Thirty-first	3,858 85
14315	C. F. and Paving.	Morgan	West Sixteenth	West Eighteenth	6,224 19
14316	C. G. and Paving.	Alley	in Sub-block 3 and 4 of Block	63, C. T. Sub. Section 7, 39, 14	1,988 77
14317	C. F. and Paving.	Fisk	West Sixteenth	West Eighteenth	4,501 62
14327	C. G. and Paving.	Alley	Prairie ave. and Calumet ave.	between Twenty-ninth and Ray	244 20

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14298	C. F. and Paving.	West Congress	Rockwell	Sacramento avenue	\$ 1,041 06
14294	C. F. and Paving	Blanche	Ashland avenue	Noble	1,635 09
14295	C. F. and Paving	California avenue	Milwaukee avenue	Humboldt boulevard	19,312 34
14296	C. G. and Paving.	Forty-fifth	State	Grand boulevard	6,534 41
14298	C. F. and Paving	Clarinda	Holt	Ashland avenue	645 57
14299	C. G. and Paving	Addison avenue	North Clark	Ashland avenue	561 44
14241	C. F. and Paving	Western avenue	Fullerton avenue	Belmont avenue	739 13
14244	C. F. and Paving	Lowe avenue	Twenty-sixth	Egan avenue	82,572 30
14246	C. F. and Paving	Calumet avenue	Thirty-seventh	Thirty-eighth	4,989 88
14248	C. F. and Paving	Lincoln	West Twelfth	West Thirtieth	6,969 91
14250	Grading and Paving	Fourteenth	Wabash avenue	Michigan avenue	1,818 47
14251	C. F. and Paving	Brown	Wright	C. & N.-W. R'y	2,836 00
14253	C. G. and Paving	Alley	in Sub block 2	Blk 27, C. T. Sub., Sec. 33, 40, 14	2,402 42
14254	C. F. and Paving	Washenaw avenue	West Sixteenth	West Twenty-second	31,271 50
14255	C. F. and Paving	Forty-seventh	Halsted	Paulina	38,158 85
14281	C. G. and Paving	Douglas avenue	Western avenue	California avenue	21,271 98
14282	C. F. and Paving	Fifty-ninth	Halsted	Centre avenue	24,369 80
14283	C. F. and Paving	Hoyne avenue	Belmont avenue	Clybourn avenue	17,092 05
14287	C. G. and Paving	Genesee avenue	Colorado avenue	West Harrison	4,830 52
14288	C. G. and Paving	Calumet avenue	Egan avenue	Forty-second	15,888 79
14289	C. G. and Paving	Lincoln avenue	Sulzer	Addison avenue	41,518 73
14298	C. G. and Paving	West Twenty-third	St. Louis avenue	Central Park avenue	3,981 64
14309	C. F. and Paving	Lill	Western avenue	Station	10,359 75
14330	C. G. and Paving	The alley	Twenty-third to 147 ft. N. of Twenty-fourth	bet. Michigan avenue and Indiana avenue	1,876 86
14331	C. G. and Paving	The alley	in South ½ Blocks 57 and 58	C. T. Sub., Section 7, 39, 14	3,795 94
14332	C. G. and Paving	The alleys	in Block 10, Ashland 2d Add.	bet. Adams & Jackson & Monro & Lincoln	1,777 05
14338	C. G. and Paving	The alley	Aberdeen to Centre avenue	bet. Tilden ave. to West Congress	1,307 33
14334	C. G. and Paving	The alley	in South ½ Block 55	C. T. Sub., Section 7, 39, 14	544 39
14336	C. F. and Paving	Gordon	State	Butterfield	3,333 62
14337	C. F. and Paving	Gordon	Union avenue	Stewart avenue	13,211 99
14336	C. F. and Paving	Wrightwood avenue	Southport avenue	C. & E. R. R.	5,570 90
14389	C. G. and Paving	West Forty-second	Ogden avenue	C., B. & Q. R. R.	3,513 38
14341	C. F. and Paving	Paulina	Clybourn avenue	Wrightwood avenue	11,039 61
14405	C. F. and Paving	Wabausia avenue	Ashland avenue	Robey	10,417 34
14410	C. G. and Paving	Indiana avenue	Egan avenue	Forty-third	936 25
14411	C. G. and Paving	Forty-third	State	Halsted	41,003 47

14419	C. G. and Paving	Clarence avenue	Gracé	Nellie avenue	8,776 76
14435	C. G. and Paving	Sixty-sixth court	Stewart avenue	Wright	2,854 55
14486	C. F. and Paving	Johnson	West Sixteenth	West Eighteenth	5,869 51
14488	C. F. and Paving	The alley	Van Buren to Avon place	Bet. Robey and Hoyne avenue	429 03
14450	C. G. and Paving	Fiftieth	Cottage Grove avenue	Drexel boulevard	4,093 47
14451	C. F. and Paving	Leavitt	Eighteenth	Blue Island avenue	48,990 93
TOTAL					\$9,470,729 01

STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12873	C. G. and Macadam.	Fifty-second	Lake avenue	Drexel avenue	\$36,056 84
12877	G. and Macadamizing	Cottage Grove avenue	Sixty-seventh	Ninety-fifth	32,507 36
12885	C. F. and Macadam	Cornelia	Halsted	Lake Michigan	11,220 06
12898	C. G. and Macadam	Langley avenue	Forty-second	Forty-fifth	18,794 13
12402	C. G. and Macadam	Drexel avenue	Sixtieth	Sixty-third	10,197 15
12409	C. G. and Macadam	Wharton avenue	Sixtieth	Sixty-third	10,129 65
12420	C. G. and Macadam	Addison avenue	North Clark	Lake Michigan	20,694 60
12434	C. G. and Macadam	Langley avenue	Fortieth	Forty-second	3,887 67
12442	C. G. and Macadam	Michigan avenue	Fifty-fifth	Sixty-third	64,917 85
12443	F. and Macadamizing	18 feet in middle of Sixty-ninth	State	Vincennes avenue	903 53
12478	G. and Planking	Alleys	Block 12	S. E. ¼, Sec. 17, 39, 14	2,494 80
12518	C. G. and Macadam	Ione place	Vincennes avenue	Grand boulevard	4,169 50
12519	C. G. and Macadam	Ellis avenue	Fifty-fifth	Fifty-sixth	3,677 50
12561	C. G. and Macadam	Calumet avenue	Forty-third	Forty-seventh	15,055 05
12624	G. and Macadamizing	Forty-seventh	Western avenue	Archer avenue	18,473 61
12628	C. G. and Macadam	Fifty-fourth place	Woodlawn avenue	Drexel avenue	7,773 05
12638	C. G. and Macadam	Drexel avenue	Fifty-fifth	Fifty-ninth	27,056 86
12673	Asphalt Paving	West Monroe	Central Park avenue	Kedzie avenue	42,408 01
12674	Asphalt Paving	West Adams	Central Park avenue	Kedzie avenue	44,022 50
12709	Improving (Hyde Park)	Evans avenue	Forty-sixth	Forty-seventh	431 75
12721	C. G. and Macadam	Halsted	Evansston avenue	Sulzer	17,894 93
12726	C. F. and Macadam	Sherman	Sixty-third	Sixty-fifth	10,670 20
12738	G. and Macadamizing	Ninetieth	Green Bay avenue	Manistee avenue	22,735 25
12739	C. G. and Macadam	St. Lawrence avenue	Forty-fifth	Fifty-first	38,988 07
12756	C. G. and Macadam	Kenmore avenue	Lawrence avenue	Ainslie	5,883 20
12757	C. G. and Macadam	Fifty-seventh	Cottage Grove avenue	Woodlawn avenue	26,172 96

STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12772	C. G. and Macadam.	Forty-second.	Drexel boulevard.	Oakenwald avenue.	\$10,560 86
12773	Asphalt Paving	Fulton.	Homan avenue.	Central Park avenue.	23,592 95
12774	Asphalt Paving	Walnut.	Central Park avenue.	Homan avenue.	19,559 20
12798	G. and Macadamizing	Johnson avenue.	Archer avenue.	Fifty-first.	11,050 00
12809	C. F. and Paving	South Chicago avenue.	Commercial avenue.	Ninety-second.	16,261 46
12824	G. and Graveling	Warner avenue.	Crawford avenue.	Central Park avenue.	1,572 00
12825	Grubbing, Graveling and Macad.	Fifty-first.	Drexel boulevard.	East end.	55,549 40
12833	C. G. and Macadam.	Eastwood avenue.	Sheffield avenue.	Halsted.	6,427 32
12835	Asphalt Paving	North State.	Division.	North avenue.	23,231 21
12842	C. G. and Macadam.	Forty-fourth.	Cottage Grove avenue.	St. Lawrence avenue.	6,564 50
12863	C. G. and Macadam.	Ingleside avenue.	Fifty-fifth.	Fifty-ninth.	17,955 55
12863	C. G. and Macadam.	Kenwood place.	Vincennes avenue.	Grand boulevard.	4,147 75
12865	C. G. and Macadam.	Forrestville avenue.	Forty-eighth.	Fifty-first.	11,605 20
12914	Grading and Planking	Alleys.	W. ¼ Blocks 13 and 18.	C. T. Sub. Sec. 17, 39, 14.	1,915 92
12921	G. G. and Macadam.	Vincennes avenue.	Forty-seventh.	Fifty-first.	26,286 50
12923	C. G. and Macadam.	Albany avenue.	Colorado avenue.	West Harrison.	8,584 18
13029	Asphalt Paving	Bonney avenue.	Ogden avenue.	Twenty-sixth.	42,296 41
13041	C. F. and Macadam.	Sixty-second.	Halsted.	Wallace.	7,906 58
13060	C. F. and Macadam.	Honore	Sixty-seventh.	Sixty-ninth.	8,816 83
13123	C. F. and Macadam.	Reta.	Addison avenue.	Cornelia.	8,100 03
13209	C. F. and Macadam.	Aberdeen.	North Clark.	Evanston avenue.	13,807 41
13250	C. G. and Macadam.	Forty-fourth.	Cottage Grove avenue.	St. Lawrence avenue.	267 11
13264	C. F. and Macadam.	Seventy-third.	State.	Wallace.	22,358 55
13320	C. G. Fav. and Plank.	Alley.	Thirty-first to Thirty-second.	bet. Wentworth and Fifth aves.	1,217 01
13355	G. and Macadamizing.	Ogden avenue.	Crawford avenue.	Forty-sixth.	11,611 45
13361	C. G. and Macadam.	Ontario avenue.	Seventy-ninth.	Eightieth.	2,893 16
13398	Curbing and Filling	West Sixteenth.	Ashland avenue.	Wood.	14,985 99
13413	G. and Macadamizing	One hundred and fourth.	Hoxie avenue.	Torrence avenue.	648 40
13426	C. G. and Macadam.	Greenwood avenue.	Sixtieth.	Sixty-third.	9,443 51
13427	Curbing	Argyle.	Evanston avenue.	Eastern terminus.	2,683 00
13485	C. F. and Macadam.	Sixty-sixth.	Stewart avenue.	Sherman.	9,867 17
13492	C. F. and Macadam.	Stewart avenue.	Hawthorn avenue.	Seventy-ninth.	8,584 26
13461	Grading and Planking	Alley.	Hanover and Williams	bet. Gordon and Forty-fourth.	793 00
13480	C. G. and Macadam.	Champlain avenue.	Forty-seventh.	Forty-ninth.	6,560 07
13585	C. F. and Macadam.	Chestnut.	Halsted.	Wallace.	7,686 71
13647	C. F. and Macadam.	Champlain avenue.	Forty-ninth.	Fiftieth.	4,804 49

13784	C. G. and Macadam.	St. Lawrence avenue	Forty-fifth.	Fifty-first.	8,774 94
13786	C. G. and Macadam.	Forty-second.	Drexel boulevard.	Oakenwald avenue.	198 80
13787	C. G. and Macadam.	Drexel avenue.	250 feet south of Fifty-first.	Fifty-fifth.	25,287 13
13788	C. G. and Macadam.	Seipp avenue.	Seventy-first.	Seventy-third.	5,790 71
13861	C. G. and Macadamizing	Washington avenue.	Seventy-first.	Ninety-fifth.	4,787 50
13863	C. G. and Macadam.	Rockeby.	Grace.	Addison avenue.	6,767 80
13868	C. G. and Macadam.	West 1/2 South Park avenue.	Garfield boulevard.	Centre line Sixtieth.	18,107 63
13868	C. F. and Macadam.	Honore.	Sixty-seventh.	Sixty-ninth.	6,571 89
13913	C. F. and Macadam.	Sixty-second.	Stony Island avenue.	Illinois Central R. R.	4,681 89
13929	Curbing and Macadam.	Vine.	Division.	Vedder.	845 09
13932	C. G. and Macadam.	Lawrence avenue.	Sheffield avenue.	Ashland avenue.	28,173 80
13934	C. F. and Macadam.	Sixty-sixth.	Stewart avenue.	Sherman.	100 00
13935	Curbing.	West Polk.	Centre avenue.	Lytle.	229 82
14050	C. G. and Macadam.	Fifty-third.	East End avenue.	Drexel avenue.	39,101 53
14054	C. G. and Macadam.	Fifty-fourth.	Lake avenue.	Drexel avenue.	34,864 25
14084	C. G. and Macadam.	Lexington avenue.	Sixty-third.	Sixty-fifth.	6,517 15
14207	C. F. and Macadam.	Seipp avenue.	Seventy-third.	Seventy-fifth.	6,632 00
14209	C. G. and Macadam.	Seventy-second.	Stony Island avenue.	Yates avenue.	25,602 85
14218	C. G. and Macadam.	Champlain avenue.	Fort-seventh.	Forty-ninth.	397 00
14223	G. and Macadamizing.	Western avenue.	Egan avenue.	Eighty-seventh.	81,782 16
14225	C. G. and Macadam.	Halsted.	Evanston avenue.	Sulzer.	664 20
14229	C. F. and Macadam.	Sherman.	Sixty-third.	Sixty-fifth.	1,785 82
14245	Asphalt Paving.	Calumet avenue.	Forty-third.	Fifty-first.	84,541 78
14259	C. F. and Macadam.	Hazel.	Sulzer.	Buena avenue.	9,251 87
14290	C. G. and Macadam.	Madison avenue.	Sixtieth.	Sixty-sixth.	26,115 87
14293	Cap. Carl Wall, Grading & Pav.	Twenty-second.	State.	Indiana avenue.	9,539 76
14338	C. G. and Macadam.	Forty-fourth.	Drexel boulevard.	Cottage Grove avenue.	3,057 62
14340	C. F. and Macadam.	Lincoln.	West Fifteenth.	West Eighteenth.	8,703 80
14412	C. F. and Macadam.	Seventy-fourth.	State.	Stewart avenue.	16,951 29
14441	C. G. and Macadam.	Waubun avenue.	Oakdale avenue.	Wellington avenue.	2,265 98
13972	C. G. and Asphalt Pav.	Ohio.	North Clark.	St. Clair.	27,715 87
13973	C. G. and Asphalt Pav.	Ohio.	North Clark.	St. Clair.	1,088 00
13974	C. G. and Asphalt Pav.	Ohio.	North Clark.	St. Clair.	4,153 88
TOTAL.					\$1,397,421 77

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS.

No. of Ward	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12376	Sewers.	Fifty-fifth.	Cottage Grove avenue.	Lake avenue	\$ 18,152 52
12392	do	Calumet avenue.	Forty-first.	Thirty-ninth	8,968 07
12394	do	West Fourteenth.	Robey.	Leavitt	1,803 88
12395	do	Ann.	Carroll.	C., M. & St. P. R'y.	28,482 60
12424	do	North Fifty-ninth.	North Clark.	Herndon.	28,743 13
12429	do	George	Southport avenue.	Herndon.	1,064 92
12430	do	Oakdale avenue.	Racine avenue.	Herndon	1,062 19
12431	do	Ellis avenue.	Fifty-sixth.	Fifty-seventh	2,401 06
12432	do	West Sixteenth, etc.	Kedzie avenue, etc.	Douglas Park boulevard.	9,718 25
12438	do	West Fifteenth, etc.	Kedzie avenue, etc.	West Sixteenth.	6,686 97
12450	do	Lawndale avenue.	West Ohio.	West Huron.	1,588 00
12451	do	Fairview avenue.	Fullerton avenue.	Humboldt boulevard	2,994 20
12452	do	Hoffman avenue.	Fullerton avenue.	Humboldt boulevard	2,994 20
12453	do	Albany avenue.	West Jackson.	West Congress.	1,686 26
12495	do	Rhine	Western avenue.	Leavitt	2,401 96
12496	do	Pleasant place.	Leavitt.	110 feet west of Oakley avenue.	1,404 92
12497	do	Berlin	Western avenue.	Leavitt	2,401 96
12498	do	Dudley	Hervey.	Asylum place.	1,173 17
12499	do	Coblenz.	Leavitt.	Robey.	2,449 84
12500	do	West Twenty-seventh, etc.	Lawndale avenue, etc.	West Thirtieth.	5,714 44
12580	do	West Polk.	Francisco.	Sacramento avenue	1,187 80
12581	do	Harvard	Albany avenue.	Sacramento avenue	1,144 59
12532	do	Lexington avenue.	Francisco.	Sacramento avenue	1,187 80
12533	do	West Polk.	Washtenaw avenue.	Sacramento avenue	1,087 84
12534	do	Hamlin avenue.	West Ohio.	543 feet east.	3,440 20
12535	do	Lawndale avenue.	West Ohio.	West Kinzie.	1,087 84
12536	do	West Sixteenth.	Homan avenue, etc.	West Kinzie.	4,001 04
12587	do	West Harrison.	Central Park avenue, etc.	Ogden avenue.	2,804 87
12588	do	Fillmore.	etc., etc.	etc.	4,806 38
12589	do	Leavitt	etc., etc.	etc.	12,171 00
12563	do	Roscoe.	Southport avenue.	Racine avenue	9,595 33
12564	do	Frankfort.	Leavitt street.	Robey	2,499 81
12565	do	Fletcher	Southport avenue.	Robey	2,480 80
12566	do	Clarkson avenue.	Hermitage avenue.	Bloomington Road	1,686 88
12567	do	Dunning.	Ward.	Bloomington Road	8,079 18
12568	do	Nebraska avenue.	Armitage avenue.	Bloomington Road.	2,173 30
12568	do				2,998 33

12591	Sewers	Sheridan avenue.	Armitage avenue.	Bloomingdale road.	3,176 50
12592	do	Sheridan avenue.	North avenue.	Bloomingdale road.	3,176 50
12593	do	Ninety-fifth.	Calumet river.	Sixth avenue.	9,921 68
12594	do	Clarkson avenue.	Armitage avenue.	Palmer square.	2,876 79
12595	do	Nebraska avenue.	Armitage avenue.	Palmer square.	2,825 19
12596	do	Kedzie avenue.	North avenue.	Bloomingdale road.	3,734 78
12597	do	Kedzie avenue.	Armitage avenue.	Bloomingdale road.	3,894 65
12598	do	Kedzie avenue.	Armitage avenue.	Palmer square.	3,585 43
12599	do	Southport avenue.	Addison avenue.	Roscoe.	2,912 27
12600	do	South side Palmer square.	Humboldt boulevard.	Kedzie avenue.	2,043 50
12601	do	Fifty-seventh.	Center avenue.	Morgan.	3,256 86
12602	do	Forty-eighth.	Halsted.	Wallace.	2,183 60
12603	do	Bristol.	Wentworth.	C., R. I. & P. R'y.	895 00
12623	do	Ashland avenue.	Garfield boulevard.	Fifty-ninth.	769 64
12625	do	Trumbull avenue.	West Ohio.	West Huron.	182 24
12626	do	West Ohio.	Kedzie avenue.	Central boulevard.	6,175 03
12627	do	Thomas, etc.	California avenue, etc.	West Division.	3,909 57
12629	do	Morgan.	Forty-seventh.	Fifty-fourth.	10,387 88
12630	do	West Twenty-first.	Rockwell.	South-West boulevard.	4,831 65
12632	do	Fifty-third.	Drexel avenue.	100 feet E. Cottage Grove avenue	183 00
12634	do	West Twenty-first.	Homan avenue.	354 feet S.-W. of Twelfth.	5,750 20
12635	do	Hamlin avenue.	West Twenty-second, etc.	Homan avenue.	16,864 97
12636	do	Chestnut.	Halsted.	East line Lot 6, etc.	1,336 00
12690	do	East side Humboldt boulevard.	Fullerton avenue, etc.	Milwaukee avenue.	4,730 80
12691	do	West side Humboldt boulevard.	Fullerton avenue.	Logan square.	2,750 82
12692	do	West side Humboldt boulevard.	Fullerton avenue.	Palmer square.	5,546 55
12693	do	Belmont avenue.	Western avenue.	907 feet west.	1,816 92
12694	do	School.	Forty-third.	Layton.	2,236 13
12695	do	School.	Forty-fifth.	Forty-sixth.	984 16
12713	do	Greenwood avenue.	Fifty-sixth.	Fifty-fourth.	375 00
12715	do	Perry avenue.	Fullerton avenue, etc.	Southport avenue.	343 85
12733	do	Forest avenue.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12734	do	Myrtle avenue.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12735	do	Laurel avenue.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12736	do	Linden.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12737	do	Albany avenue.	Fullerton avenue.	West Twelfth.	4,799 28
12744	do	Knebl place, etc.	Elston avenue, etc.	Asylum place.	4,894 35
12745	do	Leavitt, etc.	.....	.....	12,733 63
12749	do	Hamlin avenue, etc.	.....	.....	24,428 25
12750	do	Frank.	Diversey avenue.	Surf.	800 00
12759	do	One hundredth.	Calumet river.	Eleventh avenue.	20,095 45
12760	do	Fifty-seventh.	Halsted.	Wallace.	4,019 00

DEPARTMENT OF PUBLIC WORKS.

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12761	Sewers.	Fifty-seventh.	Ashland avenue.	Loomis.	\$ 8,475 23
12784	do	Humboldt boulevard.	Western avenue.	Milwaukee avenue.	9,270 50
12785	do	Thomas avenue.	Milwaukee avenue.	Humboldt boulevard.	1,976 57
12786	do	Richmond avenue.	Milwaukee avenue.	Humboldt boulevard.	2,565 73
12787	do	School.	Thirty-ninth.	Root.	3,501 48
12789	do	Kedzie avenue.	Augusta.	Weage.	8,279 91
12800	do	Diversey avenue.	North branch Chicago river.	Kedzie avenue.	88,283 18
12802	do	Crawford avenue.	West fort, South branch Chicago river.	West Division.	384,874 94
12804	do	George.	Sheffield avenue.	Seminary avenue.	1,032 40
12805	do	Noble avenue.	Racine avenue.	Perry.	8,547 00
12811	do	Bryn Maur avenue.	Evanston avenue.	North Clark.	10,751 00
12817	do	Fifty-first.	Halsted.	Wallace.	800 00
12818	do	Grand avenue.	Augusta.	Division.	28,318 00
12819	do	Thirty-fifth, etc.	Western avenue, etc.	Plesson, etc.	107,997 49
12820	do	One Hundred and third.	Calumet river.	Avenue "C."	24,313 61
12822	do	California avenue.	Chicago avenue.	Grand avenue.	8,002 04
12823	do	Drainage system and Pumping works.	Woodlawn drainage system.		8,200 00
12828	do	Centre.	Wellington.	To a point 255 feet north.	419 00
12840	do	Washtenaw avenue.	West Division.	Hirsch.	2,508 68
12843	do	One Hundred and sixth.	Calumet river.	Indiana State line.	80,618 02
12851	do	Fifty-third.	Center avenue.	Morgan.	3,703 16
12852	do	Seventy-fourth.	Halsted.	Morgan.	4,401 70
12853	do	Throop.	Forty-seventh.	Forty-ninth.	2,945 28
12854	do	Sherman.	Sixty-third court.	Sixty-fourth.	590 40
12855	do	Sherman.	Fifty-sixth to a point 247 feet.	South of Fifty-eighth.	3,149 74
12856	do	Fiftieth.	Halsted.	Union avenue.	1,178 83
12857	do	Niagara.	Halsted.	Union avenue.	1,314 58
12858	do	Fifty-eighth.	Halsted.	Sherman.	3,294 15
12859	do	Tracey avenue.	Fifty-ninth.	Alley south of Fifty-eighth.	646 50
12860	do	Forrestville avenue.	Forty-eighth.	Fifty-first.	5,262 78
12861	do	Side of Humboldt boulevard.	Fullerton avenue.	Palmer square, etc.	8,236 91
12904	do	Central Park avenue, etc.	West Ohio.	West Kinzie.	4,178 70
12905	do	Francisco.	Augusta.	Chicago avenue.	3,168 54
12906	do	Seventy-third.	Halsted.	Morgan.	5,682 50
12907	do	Sixty-fifth.	Halsted.	Centre avenue.	9,598 11
12908	do	Eighty-eighth.	Buffalo avenue.	Mackinaw avenue.	729 50

12917	Sewers.	Sheridan avenue.	West Ohio.	West Kinzie.	3,249 44
12918	do	Ingleside avenue.	Fifty-sixth.	Fifty-ninth.	4,921 75
12923	do	St. Lawrence avenue.	Forty-sixth.	Forty-seventh.	5,814 95
12926	do	Walnut.	from a point 270 feet west of west line of St. Louis avenue to west 265 feet.	460 87	
12927	do	Sixty-third.	Halsted.	Sherman.	4,285 30
12929	do	Sixty-third.	Sherman.	Stewart avenue.	5,221 00
12949	do	Melrose avenue.	Robey.	Alley east of Hoyne avenue.	775 70
12950	do	Oakdale avenue.	Racine avenue.	Seminary avenue.	1,238 00
12951	do	Superior avenue.	Ninety-second.	Alley south of Ninety-first.	1,026 50
12953	do	Kenwood place.	Vincennes avenue.	Morgan.	2,062 85
12953	do	Seventy-first.	Halsted.	School, etc.	5,682 50
12954	do	Leavitt.	Belmont avenue.	School, etc.	1,955 60
12955	do	Emerald avenue.	Seventy-third.	Seventy-first.	2,739 80
12956	do	Sargamon.	Fifty-ninth.	Sixty-second.	3,999 49
12957	do	St. Lawrence avenue.	Forty-seventh.	Fifty-first.	6,659 77
12958	do	Sawyer avenue.	West Twenty-second.	C, B. & Q. R. R.	575 00
12959	do	Mackinaw avenue.	Eighty-seventh.	Alley north of Ninety-first.	4,831 20
12960	do	Thirty-third court.	Paulina.	Wood.	1,221 08
12961	do	Thirty-fourth.	Paulina.	Wood.	1,222 82
12962	do	North side Ogden avenue.	Kedzie avenue.	Spaulding avenue.	2,574 18
12963	do	Perry avenue.	Milwaukee avenue.	Fullerton avenue.	6,597 77
12965	do	Catalpa place.	Fullerton avenue.	McGovern, etc.	3,368 62
12966	do	Fiftieth.	St. Lawrence avenue.	Champlain avenue, etc.	1,790 73
13023	do	West Van Buren.	Kedzie avenue.	Homan avenue.	4,058 20
13024	do	Thirty-third.	Wallace.	Butler.	1,176 50
13025	do	Fulton.	Homan avenue.	Central Park avenue.	2,449 41
13034	do	Ashland avenue.	Lawrence avenue.	Tuttle avenue.	2,501 66
13053	do	Jansen avenue.	Nellie avenue.	Grace.	1,328 18
13054	do	Peoria.	Seventy-first.	Seventy-fourth.	4,410 20
13055	do	Peoria.	Fifty-ninth.	Sixty-third.	5,697 29
13056	do	Green.	Fifty-ninth.	Sixty-third.	5,814 35
13079	do	Morgan.	Sixty-third.	Sixty-fifth.	2,496 00
13091	do	Forty-eighth.	Center avenue.	Aberdeen.	2,227 89
13092	do	Alley, through.	Blocks 1 and 4, Wright & Winde-	tt's Sub. Sec. 9, 38, 14.	2,164 00
13093	do	Aberdeen.	Forty-eighth.	Fifty-fourth.	9,144 08
13094	do	Fiftieth.	Halsted.	Morgan.	2,831 17
13095	do	Union avenue.	Fifty-sixth.	Fifty-eighth.	2,720 23
13096	do	Palmer avenue.	California avenue.	Humboldt boulevard.	2,198 00
13097	do	Hicking avenue.	Halsted.	Alley east of Morgan.	2,476 12
13098	do	Keeney avenue.	North avenue.	Bloomington road.	3,835 14
13099	do	Superior avenue.	Eighty-seventh.	Alley north of Ninety-first.	6,476 23
13100	do	Keeney avenue.	Bloomington road.	Humboldt avenue.	6,511 68

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
18101	Sewers.	Washtenaw avenue.	Fillmore	Grenshaw	4,598 80
18102	do	Mitchell.	North avenue	Bloomington road.	8,104 42
18103	do	Norman avenue.	North avenue	Bloomington road.	8,104 42
18104	do	Leavitt	Belmont avenue.	Clybourn avenue.	2,134 26
18105	do	West Harrison.	Kedzie avenue.	Homan avenue	4,118 20
18106	do	Tripp avenue.	North avenue.	Bloomington road.	8,185 79
18107	do	Tripp avenue.	Bloomington road.	Humboldt avenue.	6,220 17
18108	do	Spaulding avenue.	West Van Buren.	West Jackson, etc.	5,162 36
18109	do	West Chicago avenue.	Kedzie avenue	Humboldt boulevard	8,936 07
18114	do	Eddy.	Racine avenue	Seminary avenue	8,029 87
18173	do	Calumet avenue.	Forty-fifth	Forty-seventh	8,442 05
18174	do	Flournoy.	Albany avenue.	Sacramento avenue	1,181 40
18175	do	Wright.	Seventy-third	Seventy-second, etc	5,237 87
18177	do	Sixty-fifth.	Wright	100 feet west of Stewart avenue.	988 74
18200	do	Fiftieth	Cottage Grove avenue.	Alley west of Drexel boulevard.	8,088 09
18201	do	Frazier avenue.	Forty-seventh	Forty-ninth	2,945 18
18202	do	Emerald avenue.	Fifty-sixth	Fifty-seventh	1,848 27
18203	do	Hoffman avenue.	Milwaukee avenue	Fullerton avenue	8,986 76
18230	do	Weed.	Smith	Sheffield avenue	1,035 86
18231	do	Selden.	Larrabee	100 feet south of line of Hirsch.	1,014 55
18232	do	Osgood.	240 feet south of line of Center.	Poe	656 12
18233	do	Judson.	Blackhawk.	Eastman	709 00
18234	do	Seminary avenue.	Center avenue	Maud avenue.	1,183 47
18235	do	Howard avenue.	North avenue	Bloomington road.	8,185 79
18236	do	Howard avenue.	Bloomington road	Humboldt avenue.	6,220 17
18243	do	Churchill.	Robey	Leavitt	2,266 00
18248	do	Oakley avenue.	West Ohio	West Erie	818 10
18273	do	Central Park avenue.	North avenue.	Bloomington road.	8,176 50
18274	do	Ballou	North avenue.	Bloomington road.	8,176 50
18275	do	Mead.	North avenue.	Bloomington road.	8,176 50
18276	do	Mead.	Armitage avenue.	Bloomington road.	8,176 50
18277	do	Ballou	McLean avenue	Bloomington road.	4,605 74
18278	do	Lawndale avenue.	Armitage avenue.	McLean avenue	1,929 23
18279	do	Kimball avenue.	North avenue.	Bloomington road.	8,176 50
18280	do	Hamlin avenue.	Armitage avenue.	McLean avenue.	1,929 23
18281	do	Oglesby avenue.	North avenue.	Bloomington road.	8,176 50

18982	Sewers	McLean avenue.....	Kimball avenue.....	Hamlin avenue.....	4,586 00
18421	do	Homer.....	Western avenue.....	Washtenaw avenue.....	3,937 58
18422	do	Central Park avenue.....	West Lake.....	West Kinzie.....	2,850 01
18494	do	Elston avenue.....	Snow.....	Belmont avenue.....	16,534 76
18498	do	East ½ Herndon.....	Diversey avenue.....	450 feet south.....	864 79
18499	do	West ½ Herndon.....	Diversey avenue.....	450 feet south.....	864 79
18440	do	Wright.....	Thirty-ninth.....	Root.....	7,906 80
18444	do	California avenue.....	Elston avenue.....	Garden avenue.....	3,877 44
18447	do	Randolph.....	Albany avenue.....	West 433 feet.....	925 95
18448	do	Aberdeen.....	Fifty-ninth.....	Sixty-third.....	5,246 82
18455	do	West Twenty-first.....	Western avenue.....	Union Stock Yards T. Co. right of way.....	1,351 80
18456	do	West Twenty-first.....	Rockwell.....	C., St. L. & P. right of way.....	1,580 08
18457	do	Campbell avenue.....	West Twelfth.....	510 feet south.....	1,066 69
18458	do	Houston avenue.....	Eighty-ninth.....	Alley north of Ninety-first.....	2,706 74
18459	do	Leavitt.....	Wabansia avenue.....	400 feet south.....	739 00
18460	do	Racine avenue.....	and Seminary avenue.....	Newport avenue.....	2,590 97
18481	do	Forty-third.....	State.....	195 feet west of Dearborn.....	1,875 43
18482	do	Grand avenue.....	California avenue.....	Western avenue.....	19,279 00
18483†	do	Carpenter.....	Fifty-ninth.....	Sixty-third.....	4,966 66
18484	do	Morgan.....	Fifty-ninth.....	Sixty-third.....	5,268 45
18594	do	Ashland avenue.....	South fort, South branch Chicago river.....	Thirty-ninth.....	1,577 65
18555	do	Emerald avenue.....	Sixty-fifth.....	Sixty-sixth.....	1,416 25
18556	do	Morgan.....	Sixty-seventh.....	Sixty-eighth.....	1,481 96
18557	do	Green.....	Sixty-seventh.....	Sixty-eighth.....	1,481 96
18558	do	Sangamon.....	Sixty-seventh.....	Sixty-eighth.....	1,481 98
18559	do	Sacramento avenue.....	Twelfth.....	Fillmore.....	1,306 88
18560	do	Peoria.....	Sixty-seventh.....	Sixty-eighth.....	1,481 96
18561	do	Edbrooke place.....	Western avenue.....	West 295 feet.....	686 65
18562	do	Forty-third.....	Ashland avenue.....	Wood.....	5,178 94
18563	do	Forty-first.....	Wallace.....	Wright.....	1,343 74
18564	do	Fortieth court.....	Wallace.....	East line C., St. L. & P. R. R.....	1,343 74
18597	do	Moore.....	Western avenue.....	Rockwell.....	2,748 55
18598	do	Bismark.....	California avenue.....	Rockwell.....	3,949 92
18599	do	Rebecca.....	California avenue.....	Rockwell.....	2,748 55
18600	do	Werder.....	California avenue.....	West 210 feet.....	389 64
18601	do	Thomas.....	Dudley.....	West 210 feet.....	389 64
18602	do	Jamot.....	Robey.....	Leavitt.....	3,040 56
18603	do	Fulton.....	Columbia place.....	East 295 feet.....	681 57
18604	do	Rosenmerkel.....	Wright.....	Stewart avenue.....	1,214 58
18622	do	Mozart.....	Armitage avenue.....	Shakespeare avenue.....	9,132 29
18623	do	Evanston avenue.....	Aberdeen.....	Argyle.....	18,374 43
18636	do	Diversey avenue.....	North branch Chicago river.....	Kedzie avenue.....	3,186 00

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
18645	Sewers	Jackson avenue.	Fifty-third.	Fifty-fourth	\$ 1,575 60
18708	do	Fifty-sixth.	Center avenue.	Morgan.	3,066 39
18709	do	Avers avenue.	West Ohio.	West Chicago avenue.	7,169 60
18710	do	Harvard	Seventy-third	Seventy-fifth	2,787 18
18711	do	Albany avenue.	West Ohio.	West Kinzie.	4,349 69
18714	do	Webster avenue.	Seventy-third	Seventy-fifth	2,787 18
18729	do	Mackinaw avenue.	Eighty-seventh.	Alley north of Ninety-first	92 25
18731	do	Myrtle avenue.	Fullerton avenue.	Humboldt boulevard	742 70
18732	do	Laurel avenue.	Fullerton avenue.	Humboldt boulevard	209 00
18733	do	Linden avenue.	Fullerton avenue.	Humboldt boulevard	777 35
18742	do	Armour avenue.	Forty-sixth.	Forty-fifth court	815 62
18743	do	Kedzie avenue.	Forty-sixth.	West Twenty-sixth.	28,754 89
18744	do	Willmot	Hoyne avenue.	Leavitt	1,727 22
18745	do	Sixty-second.	Stony Island avenue.	I. C. R. R. right of way	1,982 75
18746	do	Stony Island avenue.	Sixty-third	Sixty-seventh.	9,220 35
18747	do	Sixtieth court.	Halsted	Winter.	1,265 56
18748	do	Stony Island avenue.	Fifty-sixth.	Fifty-ninth.	8,215 88
18781	do	Clifton avenue.	Diversey avenue.	Humboldt boulevard	3,083 21
18782	do	Cottage Grove avenue.	Fifty-sixth	Fifty-ninth.	5,560 76
18783	do	McAuley avenue.	North avenue.	Bloomington road.	3,214 20
18784	do	Central Park boulevard.	St. Louis avenue	Central Park avenue.	1,270 85
18785	do	Ferdinand.	Robey.	Hoyne avenue.	1,249 57
18786	do	Morgan.	Fifty-seventh.	Alley south of Garfield boulevard	2,083 78
18787	do	Springfield avenue.	West Ohio.	West Kinzie	3,897 98
18788	do	Central Park boulevard.	St. Louis avenue.	Central Park (etc.) avenue	2,513 32
18789	do	McAuley avenue.	Armitage avenue.	Bloomington road.	3,158 58
18790	do	Burchell	Diversey avenue.	Humboldt boulevard.	3,029 20
18791	do	Richmond avenue.	Diversey avenue.	Humboldt boulevard.	3,029 21
18921	do	Hamlin avenue.	Ogden avenue.	West Sixteenth, etc.	2,437 76
18922	do	California avenue.	Fullerton avenue.	Humboldt Park boulevard.	3,906 79
18923	do	Burchell	Fullerton avenue.	Humboldt Park boulevard.	3,003 48
18924	do	Clifton.	Fullerton avenue.	Humboldt Park boulevard.	3,003 48
18925	do	Atlantic.	Forty-third.	Forty-fifth	3,037 21
18927	do	West Thirteenth.	Kedzie avenue.	Albany avenue	7,882 57
18928	do	Union avenue.	Seventy-first	Seventy-third	2,917 48
18931	do	Augusta, etc.	California avenue, etc., etc.	Rockwell, etc.	17,316 04

18946	Sewers	Augusta.....	Robey.....	Western avenue.....	12,191 68
18947	do	Western avenue.....	West Chicago avenue.....	Thomas.....	8,185 00
18951	do	St. Lawrence (etc.) avenue.....	Forty-sixth.....	Forty-seventh.....	70 00
18959	do	Frank.....	Diversey avenue.....	Surf.....	260 40
18961	do	Fifty-seventh.....	Halsted.....	Wallace.....	1,216 60
18964	do	Humboldt boulevard.....	Western avenue.....	Milwaukee avenue.....	3,636 60
18965	do	Thomas avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	1,128 00
18966	do	Richmond avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	1,466 50
18980	do	Hundred and third.....	Calumet river.....	Avenue C.....	1,988 50
18985	do	Kedzie avenue.....	Armitage avenue.....	Palmer square.....	1,826 19
18988	do	Thomas avenue.....	Diversey avenue.....	Humboldt boulevard.....	3,029 21
18989	do	Kedzie avenue.....	Diversey avenue.....	Logan square.....	3,968 93
18990	do	Ridgeway avenue.....	West Ohio.....	West Chicago avenue.....	6,106 87
18991	do	Pinney.....	West Ohio.....	West Chicago avenue.....	3,242 10
18992	do	Linden avenue.....	Diversey avenue.....	Humboldt boulevard.....	3,029 17
18993	do	Avers avenue.....	West Ohio.....	West Kinzie.....	3,613 14
18994	do	Wallace avenue.....	Humboldt boulevard.....	Diversey avenue.....	3,038 48
18995	do	Tinkham avenue.....	West Ohio.....	West Kinzie.....	3,464 50
18996	do	Sheridan avenue.....	West Ohio.....	West Chicago avenue.....	3,242 10
18997	do	Hamlin avenue.....	Fulton.....	West Kinzie.....	825 80
18998	do	Forest avenue.....	Diversey avenue.....	Humboldt boulevard.....	3,029 17
18999	do	Milwaukee avenue.....	Diversey avenue.....	Kedzie avenue.....	4,236 23
14000	do	Homan avenue.....	West Madison.....	West Jackson.....	2,473 47
14001	do	Roscoe.....	Racine avenue.....	Alley west of Sheffield avenue.....	3,909 39
14067	do	West Twenty-sixth.....	California avenue.....	A point 352 feet E. of E. line of Rockwell.....	4,410 02
14086	do	North side Humboldt boulevard.....	California avenue.....	A point 221 ft. W. of the E. line of Wallace st.....	4,006 13
14086	do	North side Humboldt boulevard.....	Fairview avenue.....	California avenue.....	4,245 83
14188	do	Fifty-second.....	Drexel avenue.....	Lake avenue.....	3,814 67
14200	do	Homan (etc.) avenue.....	West Sixteenth, etc., etc.....	Douglas Park (etc.) boulevard.....	83,536 18
14202	do	Kedzie (etc.) avenue.....	to a point 260 feet.....	East of east line.....	34,167 68
14203	do	Ashland avenue.....	South fork, South branch Chicago river.....	Thirty-ninth.....	58 50
14204	do	Forty-eighth.....	Calumet avenue, etc.....	Alley west of Grand boulevard.....	1,931 77
14206	do	Central Park avenue.....	West Lake.....	West Kinzie.....	300 00
14219	do	Maplewood avenue.....	Diversey avenue.....	Humboldt boulevard.....	3,029 17
14230	do	Albany avenue.....	West Harrison.....	West Twelfth.....	96 00
14237	do	Bryn Mawr avenue.....	Evanston avenue.....	North Clark.....	342 95
14247	do	West Taylor.....	Calhoun avenue.....	Francisco.....	1,598 05
14253	do	West Van Buren.....	Central Park avenue.....	A point 120 ft. E. of the E. line of Trumbull st.....	2,892 55
14279	do	Irving Park boulevard.....	North branch Chicago river.....	Milwaukee avenue.....	116,820 08
14284	do	Moore.....	California avenue.....	West line of right of way of St. L. & P. R. R.....	4,194 70
14285	do	West Taylor.....	Albany avenue.....	Francisco.....	2,870 34
14286	do	Homan avenue.....	West Ohio.....	West Chicago avenue.....	3,104 98

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14391	Sewers.....	Webster avenue.....	Evanson avenue.....	Southport avenue.....	\$ 2,687 35
14392	do	Dexter avenue.....	Wallace	Wright	1,887 95
14415	do	Thirty-third	between Butler.....	and the right of way of the C. E. I. & P. Ry. the N. line & 4 acres E. of E. R. of Lot 9.	4,225 27
14420	do	Dearborn	Fifty-ninth .....	.....	1,065 00
14424	do	Hoffman avenue.....	Diversey avenue.....	Humboldt boulevard.....	8,029 17
14425	do	West Harrison.....	Homan avenue.....	Central Park boulevard.....	8,731 77
14426	do	Drake avenue.....	West Ohio.....	West Chicago avenue.....	3,251 88
14430	do	Humboldt avenue.....	Diversey avenue.....	Humboldt boulevard.....	8,088 48
14431	do	Lawndale avenue.....	West Huron.....	West Chicago avenue.....	8,549 88
14482	do	Laurel avenue.....	Diversey avenue.....	Humboldt boulevard.....	8,029 17
		TOTAL.....			\$1,951,228 54

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12875	Water Service Pipes..	Lawrence avenue.....	Sheffield avenue.....	Ashland avenue.....	\$ 3,588 75
12888	do	Cornelia	North Halsted.....	Lake Michigan.....	1,905 00
12884	do	North Halsted.....	Evanson avenue.....	Sulzer.....	3,387 60
12898	do	Forty-seventh.....	Halsted	Paulina.....	5,473 50
12401	do	Thirty-eighth.....	Stewart avenue.....	Laurel.....	1,590 00
12414	do	Wabash avenue.....	Fifty-fifth.....	Sixty-third.....	8,723 00
12415	do	Mackinaw avenue.....	Eighty-seventh.....	Eighty-ninth.....	1,896 00
12435	do	Union avenue.....	Forty-seventh.....	Fifty-fifth.....	6,191 00
12507	do	Twenty-seventh.....	Portland avenue.....	Stewart avenue.....	192 00
12509	do	Wabansia avenue.....	Robey.....	Milwaukee avenue.....	391 00
12509	do	Grand avenue.....	Western avenue.....	West Chicago avenue.....	2,988 00
12510	do	Seipp avenue.....	Seventy-first.....	Seventy-third.....	1,680 00
12511	do	Jay.....	Webster avenue.....	Fullerton avenue.....	687 60
12512	do	Jay.....	Centre.....	Garfield avenue.....	184 00
12518	do	Ione place.....	Grand boulevard.....	Vincennes avenue.....	559 00
12545	do	Ontario avenue.....	Seventy-ninth.....	Eightieth.....	427 60

12546	Water Service Pipes...	Bond avenue.....	Seventy-ninth.....	Eightieth.....	924 00
12547	do	Washtenaw avenue.....	West Twelfth.....	Ogden avenue.....	770 00
12548	do	Ashland avenue.....	Garfield boulevard.....	Fifty-ninth.....	3,986 25
12549	do	Albany avenue.....	Ogden avenue.....	Douglas Park boulevard.....	902 00
12590	do	Chestnut place.....	Delaware place.....	Walton place.....	192 00
12611	do	Forty-fifth.....	Wentworth avenue.....	Stewart avenue.....	905 00
12612	do	Sixty-first.....	Wallace.....	Halsted.....	1,804 00
12613	do	Sixty-fourth.....	Wallace.....	Union.....	861 00
12621	do	Eastwood avenue.....	Sheffield avenue.....	North Halsted.....	1,491 75
12631	do	Armitage avenue.....	Kedzie avenue.....	C. M. & St. P. R'y.....	5,947 50
12631	do	Otto.....	Paulina.....	Wood.....	351 00
12650	do	Sixty-sixth.....	Stewart avenue.....	Sherman.....	1,950 00
12651	do	Addison avenue.....	Ashland avenue.....	Clark.....	4,628 25
12652	do	Langley avenue.....	Fortieth.....	Forty-second.....	414 00
12653	do	Dunning.....	Racine avenue.....	Southport avenue.....	450 00
12654	do	Laughton.....	Hoyne avenue.....	California avenue.....	8,486 50
12655	do	String.....	Canalport avenue.....	West Twenty-first.....	890 00
12656	do	Lill avenue.....	North Halsted.....	Lincoln avenue.....	562 50
12657	do	Wright.....	Sixty-fifth.....	Sixty-ninth.....	2,457 00
12658	do	Sherman.....	Sixty-third.....	Sixty-fifth.....	1,281 00
12659	do	Ashland avenue.....	Robey.....	Olive.....	150 00
12696	do	Central Park avenue.....	West Madison.....	West Harrison.....	2,280 00
12697	do	Melrose.....	Evansston avenue.....	Eastern terminus.....	450 00
12698	do	Lewis.....	Wrightwood avenue.....	Diversey avenue.....	450 00
12751	do	Greenwood avenue.....	Irving Park boulevard.....	Everett.....	560 00
12751	do	Fifty-first.....	Western avenue.....	Johnson avenue.....	10,960 00
12788	do	St. Lawrence avenue.....	Forty-fifth.....	Fifty-first.....	5,418 00
12789	do	Hoyle avenue.....	Asylum place.....	Fullerton avenue.....	792 00
12790	do	Leavitt.....	Asylum place.....	Fullerton avenue.....	1,282 00
12791	do	Frank.....	Diversey avenue.....	Surf.....	495 00
12792	do	Linden avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1,012 00
12812	do	Wellington.....	Halsted.....	Sheffield avenue.....	830 00
12847	do	Fairview avenue.....	Fullerton avenue.....	Humboldt boulevard.....	792 00
12848	do	Forest avenue.....	Fullerton avenue.....	Humboldt boulevard.....	770 00
12850	do	Belmont avenue.....	Western avenue.....	North branch Chicago river.....	1,716 00
12856	do	Forestville avenue.....	Forty-eighth.....	Fifty-first.....	2,640 00
12869	do	Hoffman avenue.....	Fullerton avenue.....	Humboldt boulevard.....	814 00
12870	do	Myrtle avenue.....	Fullerton avenue.....	Humboldt boulevard.....	968 00
12871	do	Laurel avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1,012 00
12874	do	California avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	1,920 00
12878	do	Thomas.....	Western avenue.....	Seymour.....	175 00
12879	do	Ellis avenue.....	Fifty-fifth.....	Fifty-sixth.....	637 50

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12880	Water Service Pipes..	Swift place.	Wentworth avenue.	Stewart avenue.	\$ 345 00
12881	do	Forty-fifth.	State.	Grand boulevard.	607 50
12882	do	California avenue.	Belmont avenue.	Humboldt boulevard.	4,794 50
12883	do	South Dearborn.	Egan avenue.	Root.	2,464 00
12884	do	Armour avenue.	Egan avenue.	Root.	2,486 00
12899	do	Calumet avenue.	Egan avenue.	Forty-seventh.	7,890 50
12915	do	Gehrke avenue.	North Clark.	Sheffield avenue.	868 00
12916	do	Wellington.	Sheffield avenue.	Southport avenue.	1,008 00
12996	do	Kedzie avenue.	Augusta.	West North avenue.	8,050 00
12997	do	Millard avenue.	West Twenty-sixth.	West Twenty-eighth.	2,024 00
13016	do	Church place.	Archer avenue.	Fuller.	288 00
13017	do	Parnell avenue.	Twenty-ninth.	Thirty-first.	225 00
13018	do	Indiana avenue.	Forty-third.	Forty-fifth.	2,548 00
13019	do	South Chicago avenue.	Commercial avenue.	Ninety-second.	1,036 00
13020	do	Gross avenue.	Loomis.	Forty-seventh.	2,288 00
13021	do	Haynes court.	Archer avenue.	Lyman.	176 00
13027	do	Fifty-seventh.	Wentworth avenue.	Halsted.	2,266 00
13028	do	Park avenue.	West Fortieth.	West Forty-sixth.	6,132 50
13030	do	West Monroe.	Kedzie avenue.	Central Park avenue.	3,720 00
13031	do	Quinn.	Archer avenue.	Thirty-first.	1,743 00
13060	do	South Park avenue.	Fifty-first.	Fifty-fifth.	1,920 00
13111	do	West Congress.	Albany avenue.	Kedzie avenue.	1,034 00
13112	do	Ingliside avenue.	Fifty-fifth.	Fifty-ninth.	4,350 00
13113	do	Carroll avenue.	West Fortieth.	West Forty-sixth.	4,045 50
13115	do	Madison avenue.	Sixtieth.	Sixty-sixth.	4,298 75
13117	do	Albany avenue.	West Twelfth.	Douglas Park boulevard.	858 00
13118	do	Clarinda.	Holt.	Ashland avenue.	209 00
13119	do	Leavitt.	Armitage avenue.	Asylum place.	704 00
13120	do	Forty-seventh.	State.	Cottage Grove avenue.	3,849 75
13121	do	Forty-second.	Drexel boulevard.	Oakenwald avenue.	726 00
13122	do	Wolfram.	North Halsted.	Racine avenue.	1,298 00
13126	do	St. Hedwig's avenue.	Asylum place.	Pulaski.	495 00
13127	do	Sobieski avenue.	Asylum place.	Fullerton avenue.	726 00
13128	do	Berlin.	Hoyne avenue.	Western avenue.	1,491 00
13129	do	Pleasant place.	Robey.	Western avenue.	1,701 00
13165	do	Lister avenue.	Robey.	Asylum place.	1,804 00

18178	Water Service Pipes..	Forty-third..	State	Halsted	1,710 00
18807	do	Forty-second place.	Grand boulevard	Vincennes avenue.	168 00
18210	do	Ellis avenue.	Egan avenue.	Forty-third.	2,178 00
18211	do	Fulton.	Homan avenue.	Central Park avenue.	2,184 00
18216	do	Kenwood place.	Vincennes avenue	Grand boulevard.	644 00
18817	do	Churchill	Robey	Leavitt	806 00
18821	do	Montana.	Western avenue.	Station	276 00
18322	do	Station.	Western avenue.	Leavitt	1,882 50
18323	do	Lill.	Western avenue.	Station	1,085 00
18324	do	Twenty-ninth.	Halsted	Main	1,507 50
18325	do	Washienaw avenue.	West Lake.	West Kinzie.	488 00
18327	do	Greenwood.	Western avenue.	Station	260 00
18380	do	North avenue.	Western avenue.	Crawford avenue	2,088 05
18351	do	Fifty-first	State	Grand boulevard	2,530 00
18383	do	Elgin.	Purple.	Stewart avenue.	879 80
18362	do	Pleasant	Division	Vedder	310 00
18358	do	West Jackson.	West Forty-sixth.	West Forty-seventh.	987 00
18359	do	Owasc.	West Forty-sixth	West Forty-seventh.	980 00
18360	do	West Van Buren.	West Forty-sixth	Forty-third	960 00
18365	do	Indiana avenue.	Egan avenue	Central Park avenue.	4,969 75
18431	do	Walnut	Homan avenue	Ninety-second	1,282 50
18589	do	Superior avenue.	Eighty-ninth.	Fifty-ninth.	1,102 50
18540	do	Loomis.	Fifth-fifth.	Douglas Park boulevard.	3,493 00
18541	do	Bonney avenue.	Ogden avenue.	Fifty-ninth	4,928 00
18542	do	Bishop.	Garfield boulevard.	Leavitt	8,432 00
18543	do	Coblentz.	Robey	Leavitt	667 00
18547	do	Frankfort	Hoyle avenue.	Leavitt	450 00
18548	do	Oakley avenue.	Fullerton avenue.	Station	488 00
18549	do	Rhine	Leavitt.	Western avenue	967 50
18550	do	Honore.	Sixty-seventh	Sixty-ninth	1,487 50
18552	do	Armitage avenue.	California avenue.	Kedzie avenue	1,417 50
18553	do	Byron	California avenue.	Humboldt boulevard.	644 00
18565	do	Graceland avenue.	North Clark	C. & N.-W. R'y	1,909 50
18566	do	Fifty-first	Wallace	Ashland avenue	8,080 00
18567	do	Humboldt Park boulevard.	Logan square.	Western avenue	5,712 00
18568	do	Palmer place.	North, south, east and west sides	Logan square	2,098 00
18569	do	Humboldt boulevard.	North avenue	Ogden avenue.	6,980 00
18570	do	Millard avenue.	West Twelfth	Egan avenue.	5,566 00
18571	do	Lowe avenue.	Twenty-sixth.	Stewart avenue.	5,720 00
18572	do	Forty-fifth	Wallace	North, south, east and west sides	900 00
18573	do	Logan square.	North, south, east and west sides	Cornelia	817 00
18578	do	Refa.	Addison avenue.		989 00

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
18712	Water Service Pipes..	Yates avenue.....	Seventy-first.....	Seventy-ninth.....	\$ 7,913 00
18718	do	Scipp avenue.....	Seventy-third.....	Seventy-fifth.....	1,518 00
18777	do	Seventy-third.....	State.....	Wallace.....	2,745 00
18778	do	Prairie avenue.....	Egan avenue.....	Forty-second.....	4,075 50
18779	do	West Van Buren.....	Homan avenue.....	Central Park avenue.....	1,552 50
18839	do	Calumet avenue.....	Forty-seventh.....	Fifty-first.....	4,048 00
18840	do	Cottage Grove avenue.....	Fifty-first.....	Fifty-ninth.....	4,874 00
18841	do	North Centre avenue.....	Kinzie.....	Austin avenue.....	540 00
18842	do	Aberdeen.....	North Clark.....	Evanston avenue.....	8,060 00
18843	do	Calumet avenue.....	Thirty-seventh.....	Thirty-eighth.....	607 50
18844	do	Stewart avenue.....	Seventy-seventh.....	Seventy-ninth.....	1,287 50
18845	do	Lawndale avenue.....	C. B. & Q. R. R.....	125 feet north of West Twenty-second.....	860 00
18846	do	Genessee avenue.....	Colorado avenue.....	West Harrison.....	540 50
18847	do	Melrose.....	Evanston avenue.....	Halsted.....	945 00
18848	do	Newport avenue.....	Sheffield avenue.....	Halsted.....	1,800 00
18849	do	Bonney avenue.....	Colorado avenue.....	West Harrison.....	805 50
18850	do	Hickory.....	Main.....	Cologne.....	517 50
18875	do	Prairie avenue.....	Forty-second.....	Fifty-first.....	11,928 00
18876	do	Seventy-fourth.....	State.....	Stewart avenue.....	1,850 00
18877	do	Seventy-first.....	Indiana avenue.....	South Park avenue.....	1,215 00
18878	do	Seventy-first.....	Cottage Grove avenue.....	South Park avenue.....	1,192 50
18908	do	Seminary avenue.....	Centre.....	Maud avenue.....	585 00
18909	do	North place.....	Armitage avenue.....	Northwestern terminus.....	167 50
18910	do	Maud avenue.....	Racine avenue.....	Sheffield avenue.....	585 00
18918	do	Hundred and fifteenth.....	Illinois Central R. R.....	State.....	8,555 00
18967	do	St. Lawrence avenue.....	Forty-fifth.....	Fifty-first.....	425 00
18968	do	Hoyle avenue.....	Asylum place.....	Fullerton avenue.....	48 50
18969	do	Frank.....	Diversey avenue.....	Surf.....	178 00
18970	do	Linden avenue.....	Fullerton avenue.....	Humboldt.....	369 75
18981	do	Kenmore avenue.....	Lawrence avenue.....	Ainslie.....	1,452 00
14017	do	Erie avenue.....	Eighty-seventh.....	Ninety-first.....	3,880 00
14018	do	Fairfield avenue.....	North avenue.....	Hirsch.....	1,395 00
14019	do	Indiana avenue.....	Twelfth.....	Pumping Works.....	860 00
14020	do	Ashland avenue.....	Austin avenue.....	Milwaukee avenue.....	158 00
14021	do	Drexel avenue.....	Sixtieth.....	Sixty-third.....	8,074 00
14168	do	Washington Heights.....	Supplemental list must to supply the missing part of as in known as Washington Heights No 31		7,984 49

14186	Water Service Pipes..	Fifty-fourth place..	Woodlawn avenue	Drexel avenue.	575 00
14187	do	Fifty-second..	Lake	Drexel avenue.	1,081 00
14188	do	Forty-seventh..	Archer avenue.	Western avenue.	9,601 50
14189	do	Redfield	Elston avenue.	McHenry ..	494 50
14201	do	Fifty-third	Cottage Grove avenue.	Cottage avenue.	408 00
14205	do	Douglas avenue..	Archer avenue	Western avenue	1,864 00
14232	do	Drexel avenue...	Fifty-first	Fifty-fifth.	8,800 00
14257	do	Joseph	Archer avenue	Hickory	860 00
14258	do	Webster avenue..	Dominick	North branch Chicago river.	270 00
14260	do	Hazel	Buena avenue ..	Montrose boulevard (Sulzer St.)	1,350 00
14280	do	Buffalo avenue..	Eighty-third ..	Ninety-second.	6,450 00
14294	do	Douglas avenue.	Western avenue	California avenue.	2,677 50
14295	do	Douglas avenue.	Addison avenue.	Sulzer	8,096 00
14299	do	Rosebud	Bloomingtondale road	Western avenue	450 00
14300	do	Thirty-sixth..	Halsted	Laurel	810 00
14301	do	Star avenue.....	Robertson avenue.	Southern terminus.	1,339 00
14342	do	Lexington avenue.	California avenue.	Francisco ..	495 00
14343	do	Robertson avenue.	Ill. Cent. K. R. Co. right of way	Grace	635 50
14344	do	Hoyle avenue ..	Belmont avenue ..	Clybourn avenue.	2,520 00
14345	do	Harding avenue..	West Kinzie	West Chicago avenue.	2,925 00
14346	do	Bosworth avenue.	Roscoe	Grace	3,700 00
14347	do	Janssen avenue..	Roscoe	Grace	8,807 50
14348	do	Roscoe.....	Robey	Southport avenue.	2,902 50
14349	do	Robey	Addison avenue.	Grace	1,445 50
14350	do	Fiftieth	Cottage Grove avenue.	Drexel boulevard	225 00
14351	do	Wright	Root	Forty-third.	235 00
14352	do	Sixty-sixth	Wright	Stewart avenue.	450 00
14353	do	South Park avenue.	Fifty-fifth	Sixtieth	2,475 00
14354	do	Sixty-fifth court.	Wright	Stewart avenue.	329 00
14355	do	Ferdinand	Ashland avenue ..	Paulina	370 00
14356	do	Mather	Ogden avenue	Wood	188 00
14357	do	Fisk	West Sixteenth.	West Eighteenth.	164 50
14358	do	Webster avenue..	Seventy-third ..	Seventy-fifth.	2,137 50
14359	do	Armour avenue...	Gordon	Forty-seventh	8,105 00
14360	do	Armour avenue...	Twenty-second ..	Twenty-fifth.	3,015 00
14361	do	Harvard	Seventy-third ..	Seventy-fifth.	2,047 50
14362	do	Clarence avenue.	Nellie avenue ..	Grace	787 50
14363	do	Washtenaw avenue.	West Sixteenth ..	West Twenty-second.	1,170 00
14364	do	Southport avenue.	Belmont avenue ..	Graceland avenue.	6,768 00
14365	do	Armour avenue..	Forty-seventh ..	Fifty-fifth.	7,810 00
14403	do	Tucker	Thirty-fifth	Egan avenue.	810 00
14437	do	Columbia	Milwaukee avenue	Leavitt	720 00

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14446	Water Service Pipes..	Farrell	Archer avenue	Thirty-first	\$ 1,463 50
14447	do	Robey	Archer avenue	Egan avenue (Thirty-ninth St.) ..	3,082 50
14448	do	Seventy-first	Stony Island avenue	Oglesby avenue	5,412 00
13718	do	Fifty-first	Drexel avenue	East End avenue	4,589 00
14012	do	Larabee	Fullerton avenue	Frederick	215 00
14013	do	Flournoy	Sacramento avenue	Francisco	587 50
14014	do	Jane	Hoyne avenue	Leavitt	470 00
14015	do	Alice place	Powell avenue	Western avenue	153 00
14016	do	Osgood	Clybourn avenue	Fullerton avenue	882 50
14072	do	West Polk	Rockwell	California avenue	1,462 50
14073	do	West Congress	Kedzie avenue	Homan avenue	1,085 00
14074	do	Upton	Western avenue	Milwaukee avenue	157 50
14075	do	Fifty-ninth	Halsted	Centre avenue	3,240 00
14076	do	Washington avenue	Ninety-first	Ninety-fifth	2,817 50
14077	do	Union place	West Twenty-second	Union avenue	325 00
14078	do	Thirty-seventh	Ashland avenue	Western avenue	2,867 00
14079	do	Oglesby avenue	Sixty-eighth	Seventy-first	2,970 00
14080	do	School	North Clark	Halsted	247 50
14081	do	Superior avenue	Eighty-seventh	Eighty-ninth	1,035 00
14082	do	Crawford avenue	West Twenty-second	West Twenty-third	12,876 00
14083	do	Mackinaw avenue	Eighty-ninth	Ninety-second	2,279 00
		TOTAL			\$479,852 84

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
13878	Drains	Cornelia	North Halsted	Lake Michigan	\$ 1,072 50
13879	do	Lawrence avenue	Sheffield avenue	Ashland avenue	2,648 75
13880	do	Fifty-fifth	Lake avenue	Cottage Grove avenue	2,488 75
13459	do	Fairview avenue	Fullerton avenue	Humboldt boulevard	1,260 00
12460	do	Hoffman avenue	Fullerton avenue	Humboldt boulevard	1,220 00

12461	Drains.	Bonfield	Archer avenue.	Hickory	224 00
12462	do	Ashland avenue.	Fifty-fifth	Fifty-ninth	2,478 00
12463	do	Edbrooke place.	Western avenue.	Powell avenue.	234 00
12464	do	Greenwich.	Robey	Leavitt.	666 00
12465	do	Frankfort.	Robey	Hoynes avenue.	496 00
12466	do	Redfield.	Elston avenue.	McHenry	846 60
12467	do	Wood	Armitage avenue.	Asylum place.	578 00
12468	do	Eighteenth place.	Brown.	May	140 00
12469	do	West Superior.	Rockwell	Washenaw avenue.	804 00
12470	do	Broad.	Archer avenue.	Thirty-first.	108 00
12471	do	Jay.	Centre	Garfield avenue.	160 00
12502	do	Forty-fifth	Stewart avenue.	Wentworth avenue.	510 00
12503	do	Oakley avenue.	West Indiana avenue.	West Chicago avenue.	2,860 00
12504	do	Langley avenue.	Forty-fourth	Forty-fifth	463 60
12505	do	Sixth-fourth	Wallace	Union	513 00
12506	do	Fifty-fourth place.	Lake avenue.	Madison avenue.	481 00
12540	do	Sixty-seventh.	Wright.	Honore	879 60
12541	do	Eighty-eighth.	Mackinaw avenue.	Buffalo avenue.	245 00
12542	do	Fifty-sixth	Wright	Wallace.	816 00
12543	do	Sixty-sixth	Stewart avenue.	Sherman.	578 00
12544	do	Morgan.	Fifty-fourth	Garfield boulevard	464 00
12569	do	Calumet avenue.	Egan avenue.	Forty-seventh.	6,364 00
12570	do	Haynes court.	Archer avenue	Lyman.	176 00
12571	do	Ellis avenue.	Sixtieth.	Sixty-third.	2,342 00
12572	do	Wharton avenue.	Sixtieth	Sixty-third	2,204 00
12573	do	Albany avenue.	Ogden avenue.	Douglas Park boulevard	738 00
12574	do	Stewart avenue.	Normal Parkway.	Seventy-first	1,264 00
12575	do	Sherman	Sixty-third.	Sixty-fifth.	544 00
12576	do	Honore	Sixty-ninth	Seventy-second.	2,006 00
12577	do	Ellis avenue.	Fifty-fifth	Fifty-sixth	880 00
12578	do	Jay.	Webster avenue	Fullerton avenue.	692 00
12579	do	Greenwood avenue.	Sixtieth	Sixty-third	2,166 00
12580	do	Dickey	Sixty-ninth.	Seventy-second.	1,870 00
12581	do	Butterfield.	Egan avenue.	Root.	1,186 00
12582	do	Laughton.	Hoynes avenue.	California avenue.	2,457 00
12583	do	Thomas.	Western avenue.	Seymour.	160 00
12584	do	Manteno court.	Milwaukee avenue.	Southern terminus.	114 00
12585	do	Lill avenue.	North Halsted.	Lincoln avenue.	512 50
12586	do	Kedzie avenue.	Augusta	North avenue.	2,178 00
12587	do	Parnell avenue.	Twenty-ninth	Thirty-first.	198 00
12588	do	Swift place.	Wentworth avenue.	Stewart avenue.	162 00
12589	do	String.	Canalport avenue.	West Twenty-first.	128 00

DEPARTMENT OF PUBLIC WORKS.

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12604	Drains	Union avenue.	Forty-seventh.	Garfield boulevard.	\$ 4,608 50
12605	do	Wallace.	Egan avenue.	Forty-seventh.	8,192 25
12606	do	Wright.	Sixty-fifth.	Sixty-seventh.	960 00
12607	do	Gross avenue.	Loomis.	Forty-seventh.	1,616 00
12608	do	Dunning.	Surrey court.	Southport avenue.	486 00
12609	do	Otto.	Paulina.	Wood.	182 00
12610	do	Wellington.	Sheffield avenue.	Southport avenue.	1,180 00
12614	do	Ione place.	Grand boulevard.	Vincennes avenue.	559 00
12615	do	Earl.	Shields avenue.	Stewart avenue.	98 00
12616	do	Drake avenue.	Central Park boulevard.	West Ohio.	480 00
12617	do	Quinn.	Archer avenue.	Thirty-first.	1,235 00
12618	do	Wright.	Sixty-seventh.	Sixty-ninth.	1,440 00
12619	do	Addison avenue.	North Clark.	Ashland avenue.	8,676 75
12620	do	Ingleside avenue.	Fifty-fifth.	Fifty-ninth.	4,319 50
12639	do	Gehrke avenue.	North Clark.	Sheffield avenue.	780 00
12675	do	Pearson.	North Franklin.	Western terminus.	220 00
12676	do	Albany avenue.	West Twelfth.	Douglas Park boulevard.	702 00
12677	do	Belmont avenue.	Western avenue.	North branch Chicago river.	1,136 00
12678	do	West Monroe.	Kedzie avenue.	Central Park avenue.	3,260 00
12679	do	Wolfram.	North Halsted.	Racine avenue.	1,140 00
12680	do	Chestnut.	Wallace.	Halsted.	990 00
12681	do	Sixty-first.	Wallace.	Union.	420 00
12682	do	Sixty-second.	Wallace.	Halsted.	714 00
12683	do	Monroe avenue.	Fifty-fifth.	Fifty-eighth.	702 00
12684	do	Park End avenue.	Sixtieth.	Sixty-first.	448 50
12685	do	Western avenue.	Egan avenue.	Illinois and Michigan Canal.	1,512 00
12686	do	Sobieski avenue.	Asylum place.	Fullerton avenue.	788 00
12687	do	Berlin avenue.	Western avenue.	Hoyle avenue.	1,543 00
12688	do	Pleasant place.	Western avenue.	Leavitt.	1,008 00
12689	do	Forty-second.	Drexel boulevard.	Oakenwald avenue.	570 00
12711	do	Western avenue.	West Chicago avenue.	North avenue.	13,590 60
12727	do	Leavitt.	Asylum place.	Fullerton avenue.	1,400 00
12728	do	Hoyle avenue.	Asylum place.	Fullerton avenue.	1,000 00
12729	do	Linden avenue.	Fullerton avenue.	Humboldt boulevard.	1,260 00
12730	do	Laurel avenue.	Fullerton avenue.	Humboldt boulevard.	1,260 00
12740	do	Myrtle avenue.	Fullerton avenue.	Humboldt boulevard.	1,260 00

12741	Draives	Douglas avenue	Archer avenue	Western avenue	1,512 00
12758	do	California avenue	Milwaukee avenue	Humboldt boulevard	1,840 00
12763	do	St. Lawrence avenue	Forty-fifth	Fifty-first	4,797 00
12763	do	Western avenue	Fullerton avenue	Belmont avenue	5,284 50
12764	do	Kenmore avenue	Lawrence avenue	Ainslie	1,056 00
12779	do	Fifty-seventh	Wentworth avenue	Halsted	1,008 00
12780	do	St. Hedwig's avenue	Asylum place	Pulaski	462 50
12781	do	Lister avenue	Robey	Asylum Place	1,620 00
12783	do	Michigan avenue	Garfield boulevard	Sixty-third	14,387 00
12783	do	Wabash avenue	Garfield boulevard	Sixty-third	7,624 50
12795	do	Ashland avenue	Belmont avenue	Sulzer	77 40
12797	do	Forest avenue	Fullerton avenue	Humboldt boulevard	1,160 00
12798	do	Thirty-eighth	Stewart avenue	Laurel avenue	1,472 00
12816	do	Egan avenue	Wentworth avenue	Halsted	3,255 00
12834	do	Fifty-first	Drexel boulevard	East End avenue	5,380 00
12849	do	Fulton	Homan avenue	Central Park avenue	1,892 00
12867	do	Forestville avenue	Forty-eighth	Fifty-first	1,980 00
12872	do	Madison avenue	Sixtieth	Sixty-sixth	3,800 00
12873	do	Ellis avenue	Egan avenue	Forty-third	1,430 00
12998	do	Indiana avenue	Egan avenue	Forty-fifth	6,470 75
13110	do	Hamlin avenue	C, B. & O. R. R.	West Twenty-sixth	2,574 00
13171	do	Humboldt boulevard	North avenue	Western avenue	19,477 50
13213	do	Fifth avenue	Douglas avenue	Thirty-seventh	396 00
13318	do	Twenty-third place	Wentworth avenue	Archer avenue	1,127 50
13386	do	Wabausia avenue	Western avenue	Basil avenue	882 00
13388	do	Penn	Division	Vedder	84 00
13389	do	Pleasant	Division	Vedder	112 00
13340	do	Otis	Division	Vedder	98 00
13343	do	Harvard	Campbell avenue	California avenue	1,852 00
13372	do	Wright	Sixty-ninth	Seventy-second	1,864 00
13432	do	West Chicago avenue	Leavitt	Kedzie avenue	18,048 00
13551	do	Reta	Addison avenue	Cornelia	814 00
13574	do	Armitage avenue	California avenue	Kedzie avenue	2,068 00
13575	do	Forty-fifth	Wallace	Stewart avenue	297 00
13576	do	Erie avenue	Eighty-seventh	Ninety-first	2,064 00
13577	do	Drexel avenue	Sixtieth	Sixty-third	2,572 50
13780	do	Twenty-seventh	Portland avenue	Stewart avenue	99 00
13859	do	Honore	Sixty-seventh	Sixty-ninth	629 00
13890	do	Lill	Western avenue	Station	948 50
13891	do	Hamlin avenue	Twenty-sixth	Twenty-seventh	955 50
13893	do	Churchill	Robey	Leavitt	961 00
13893	do	Montana	Western avenue	Station	838 00

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
18834	Drains.....	Greenwood avenue.	Western avenue.	Station.....	\$ 740 00
18885	do	California avenue.	Belmont avenue.	Humboldt boulevard.	4,248 00
18836	do	Calumet avenue.	Forty-seventh	Fifty-first.	8,580 00
18837	do	Station	Leavitt.....	Western avenue	1,290 50
18838	do	Washtenaw avenue.	West Lake.	Kinzie.....	409 50
18869	do	Spaulding avenue.	Ogden avenue.	West Twelfth.	8,186 00
18870	do	West Polk.....	Rockwell	California avenue.	1,221 00
18871	do	Lexington.....	California avenue.	Francisco.....	444 00
18872	do	Lawndale avenue.	Colorado avenue.	Harrison.....	407 00
18878	do	Homer.....	Robey	Hoyle avenue.	262 50
18874	do	West Congress.	Kedzie avenue.	Homan avenue.	908 50
18907	do	Washtenaw avenue.	West Sixteenth.	West Twenty-second.	1,942 50
18920	do	Turner avenue.	West Twenty-first.	Douglas Park boulevard.	8,818 75
18930	do	Armour avenue.	Forty-third.	Forty-seventh	891 00
18953	do	Frank	Diversey avenue	Surf	412 50
18954	do	Linden avenue.	Fullerton avenue.	Humboldt boulevard.	385 75
18955	do	Laurel avenue.	Fullerton avenue.	Humboldt boulevard.	79 00
18956	do	Myrtle avenue.	Fullerton avenue	Humboldt boulevard	816 00
18957	do	Douglas avenue.	Archer avenue.	Western avenue.	71 00
18960	do	California avenue	Milwaukee avenue.	Humboldt boulevard.	967 75
18962	do	St. Lawrence avenue.	Forty-fifth	Fifty-first.	407 00
18963	do	Fifty-seventh.	Wentworth avenue.	Halsted.....	68 00
18971	do	Woodlawn avenue.	Sixtieth to Stony Island avenue.	Cottage from Irons and Sixty-seventh.	845 20
18984	do	Forty-third.	State	Halsted.....	1,946 75
18987	do	St. Louis avenue.	West Kinzie.	West Chicago avenue.	2,670 00
14002	do	Sixty-third.	Halsted.....	Centre avenue.	2,868 00
14003	do	Armour avenue.	Forty-seventh	Fifty-fifth.	2,294 00
14004	do	Sixty-fifth court.	Wright	Stewart avenue.	296 00
14005	do	Calumet avenue.	Thirty-seventh	Thirty-eighth.	518 00
14087	do	Alice	Western avenue.	Powell avenue.	268 50
14088	do	Fillmore.....	California avenue.	Kedzie avenue.	1,886 00
14089	do	Osgood	Clybourn avenue.	Fullerton avenue.	676 50
14090	do	Howard	California avenue.	Kedzie avenue.	2,325 00
14091	do	Byron	California avenue.	Humboldt boulevard.	795 50
14092	do	Champlain avenue.	Forty-seventh.	Forty-ninth.	1,105 50
14093	do	Berteau avenue.	North Clark.	Ashland avenue.....	578 50

14094	Drains	Cornelia	Wood	Southport avenue	273 00
14095	do	Maud avenue	Racine avenue	Sheffield avenue	434 00
14096	do	Southport avenue	Grand avenue	144 feet North of Ernst avenue	770 00
14097	do	Thome avenue	North Clark	Southport avenue	1,406 00
14098	do	Roscoe	North Clark	Halsted	721 50
14099	do	Bonney avenue	West Sixteenth	Douglas Park boulevard	1,572 50
14100	do	Bishop	Fifty-fifth	Fifty-ninth	2,480 00
14101	do	Loomis	Fifty-fifth	Fifty-ninth	2,385 00
14102	do	Melrose	Evanston avenue	Halsted	495 00
14103	do	Avers avenue	Kinzie	Chicago avenue	5,912 00
14104	do	Peoria	Fifty-fifth	Fifty-seventh	604 50
14105	do	Rosebud	Bloomington road	Western avenue	759 50
14106	do	Ernst avenue	Clark	Southport avenue	1,406 00
14107	do	Wabash avenue	Egan avenue	Fifty-fifth	9,856 00
14108	do	Central Park avenue	Chicago avenue	Central Park boulevard	2,146 00
14109	do	East side Douglas Park boulevard	West Twelfth	Douglas Park boulevard	777 00
14110	do	North side Douglas Park boulevard	Human avenue	Douglas Park boulevard	1,498 50
14111	do	South side Douglas Park boulevard	Central Park avenue	Homan avenue	777 00
14112	do	Rhine	Leavitt	Western avenue	790 50
14113	do	West Polk	California avenue	Sacramento avenue	930 00
14114	do	Sixty-second	Stony Island avenue	Illinois Central R. R.	652 50
14115	do	Sixty-fifth	Wallace	Halsted	910 00
14116	do	Fifty-ninth	Halsted	Centre avenue	2,128 50
14117	do	South Park avenue	Fifty-fifth	Fifty-ninth	3,312 00
14118	do	Dearborn	Forty-third	Forty-seventh	796 00
14119	do	Dearborn	Forty-seventh	Fifty-fifth	1,860 00
14120	do	Moffat	Western avenue	Rockwell	1,165 50
14121	do	Sixty-first	Halsted	Centre avenue	868 50
14122	do	Coblentz	Robey	Leavitt	429 00
14123	do	Butler	Thirty-first	Thirty-third	903 50
14189	do	Fifty-fourth	Lake avenue	Drexel avenue	1,382 00
14190	do	Fifty-second	Drexel avenue	Lake avenue	1,155 00
14198	do	Fifty-third	Cottage Grove avenue	Drexel avenue	176 00
14231	do	Forty-fourth	Cottage Grove avenue	Drexel boulevard	298 00
14232	do	Oakley avenue	Fullerton avenue	Station	499 50
14231	do	Drexel avenue	Fifty-first	Fifty-fifth	3,800 00
14238	do	Fifty-fourth	Lake avenue	Drexel avenue	1,844 00
14240	do	Wabash avenue	Garfield boulevard	Sixty-third	277 75
14256	do	Hazel	Sulzer	Buena avenue	563 50
14296	do	Southport avenue	Belmont avenue	Graceland avenue	5,600 00
14297	do	Albany avenue	West Twenty-second	West Twenty-sixth	2,624 00
14302	do	Millard avenue	Ogden avenue	West Twelfth	3,866 00

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14303	Drains	Fifty-first.	Wallace.	Ashland avenue.	\$ 5,024 00
14304	do	Lincoln avenue.	Addison avenue.	Sulzer.	8,556 00
14305	do	Goodwin.	Homan avenue.	Central Park avenue.	1,584 00
14306	do	Hamlin avenue.	West Nineteenth.	Ogden avenue.	713 00
14366	do	Paulina.	Clybourn avenue.	Wrightwood avenue.	231 00
14367	do	Bosworth avenue.	Roscoe.	Grace.	2,520 00
14368	do	Upton.	Western avenue.	Milwaukee avenue.	185 00
14369	do	Palatine.	Central Park avenue.	Homan avenue.	1,584 00
14370	do	Armour avenue.	Twenty-fifth.	Twenty-sixth.	203 50
14371	do	Roscoe.	Robey.	Southport avenue.	2,085 50
14372	do	Lawndale avenue.	Douglas Park boulevard.	West Sixteenth.	1,089 00
14373	do	Lawndale avenue.	West Twelfth.	Douglas Park boulevard.	1,089 00
14374	do	Troy.	West Twenty-second.	West Twenty-sixth.	2,656 00
14375	do	Millard.	Robey.	Racine avenue.	1,763 00
14376	do	Polk.	Sacramento avenue.	Kedzie avenue.	1,056 00
14377	do	Janssen.	Roscoe.	Grace.	2,520 00
14378	do	Sawyer avenue.	C. B. & Q. R. R.	West Twenty-second.	263 50
14379	do	Kenwood place.	Vincennes avenue.	Grand boulevard.	518 00
14380	do	Sawyer avenue.	West Twelfth.	Douglas Park boulevard.	1,089 00
14381	do	Sacramento avenue.	Twenty-fifth.	Twenty-sixth.	425 50
14382	do	Jane.	Hoyne avenue.	Leavitt.	883 00
14383	do	Warren avenue.	Garfield Park.	Crawford avenue.	1,889 00
14384	do	Bonney avenue.	Ogden avenue.	West Sixteenth.	2,277 00
14385	do	Twenty-fifth.	California avenue.	Sacramento avenue.	1,869 50
14386	do	Seminary avenue.	Center.	Maud avenue.	529 50
14387	do	Thirty-sixth.	Halsted.	Laurel.	589 00
14388	do	Turner avenue.	Twenty-first.	Twenty-second.	264 00
14389	do	Prairie avenue.	Egan avenue.	Forty-second.	1,404 50
14390	do	Lowie avenue.	Twenty-sixth.	Egan avenue.	4,592 00
14391	do	Fiftieth.	Drexel boulevard.	Cottage Grove avenue.	225 50
14392	do	Fairfield avenue.	North avenue.	Hirsch.	1,172 50
14393	do	Lawndale avenue.	C. B. & Q. R. R.	Twenty-second.	380 00
14394	do	Homan avenue.	Central Park boulevard.	Washington boulevard.	742 50
14395	do	Trumbull avenue.	C. B. & Q. R. R.	West Twenty-sixth.	3,088 00
14396	do	St. Louis avenue.	C. B. & Q. R. R.	West Twenty-sixth.	3,008 00
14401	do	Newport avenue.	Sheffield avenue.	Halsted.	1,270 50

14498	Drains	Harding avenue.....	West Kinzie.....	West Chicago avenue.....	4,158 00
14448	do	Central Park avenue.....	West Lake.....	West Chicago avenue.....	1,702 00
14449	do	Armour avenue.....	Twenty-second.....	Twenty-fifth.....	2,211 00
TOTAL.....					\$411,971 20

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS.

No. of Warr'nt	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
12381	Both.....	Wright	Forty-fifth	Forty-ninth.....	\$ 1,201 15
12387	North.....	Sixty-first.....	Woodlawn avenue.....	Madison avenue.....	557 14
12397	Both.....	Ashkum avenue.....	Eighty-seventh.....	South Chicago avenue.....	330 37
12400	West.....	Hosmer avenue.....	C. & M. & St. P. R'y.....	North avenue.....	271 25
12408	Both.....	Summit avenue.....	Eighty-third.....	Eighty-fourth.....	642 81
12411	East.....	Jefferson avenue.....	Fullwaukee avenue.....	Fullerton avenue.....	2,936 53
12412	Both.....	Aberdeen.....	Sheffield avenue.....	Evanson avenue.....	836 14
12419	South.....	Belmont avenue.....	C. & N.-W. R'y.....	Hoyne avenue.....	507 37
12440	Both.....	Seward	Canalport avenue.....	Lumber	277 01
12444	South.....	Diversey avenue.....	Racine avenue.....	Southport avenue.....	318 06
12473	Both.....	Fifty-seventh.....	Cottage Grove avenue.....	Woodlawn avenue.....	946 78
12475	Both.....	Fifty-fifth.....	C. & G. T. R'y	Kedzie avenue	844 80
12479	Both.....	Racine avenue.....	Center	Fullerton avenue	576 18
12480	West.....	Seminary avenue.....	Center	Maud avenue	173 23
12481	Both.....	Hanover.....	Twenty-ninth.....	Thirty-third.....	323 64
12482	Both.....	Twenty-ninth	Stewart avenue	Halsted.....	878 90
12483	Both.....	Sangamon	Austin avenue.....	290 feet North.....	60 96
12484	Both.....	Fulton.....	Kedzie avenue.....	Homan avenue.....	773 52
12485	Both.....	Fairfield avenue.....	Lake	C. & N.-W. R'y	158 84
12486	Both.....	Lexington avenue.....	Rockwell.....	California avenue.....	325 22
12487	Both.....	West Ohio.....	Artesian avenue.....	Seymour avenue.....	101 28
12488	Both.....	Albany avenue.....	Lake	Kinzie.....	510 62
12489	Both.....	California avenue.....	West Chicago avenue	West North avenue.....	2,119 67
12490	Both.....	Jefferson.....	West Sixteenth.....	West Twenty-second.....	642 04
12491	North.....	Eastman.....	Halsted.....	Hawthorne avenue	329 78
12492	East.....	Judson.....	Blackhawk.....	Eastman.....	209 40
12493	Both.....	Francisco.....	Lake	Carroll avenue	409 80
12520	West.....	Jefferson avenue.....	Armitage avenue.....	C. & M. & St. P. R'y.....	280 49
12521	Both.....	Seminary avenue.....	Center.....	Fullerton avenue.....	389 70

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warr't	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
12522	Both.	Sheffield avenue.	Center	Fullerton avenue.	\$ 946 09
12523	East.	Lincoln avenue.	Belmont avenue.	Addison avenue.	98 63
12524	West.	Lincoln avenue.	Belmont avenue.	Addison avenue.	1,600 84
12525	Both.	Root	State	Haksted	8,016 78
12526	Both.	Ashland avenue.	Clybourn avenue.	School.	998 59
12527	Both.	Belden avenue.	Haksted	Ward.	1,387 66
12528	Both.	Hull.	Eugene	Menomonee	844 81
12529	East.	Wabash avenue.	Forty-second.	Forty-third.	188 11
12743	Both.	Mather	Canal	Clinton	204 04
12885	Both.	Lexington.	Francisco	Clinton	402 56
12886	West.	Cottage Grove avenue.	University place.	Sacramento avenue.	1,135 56
12887	Both.	Twenty-seventh	Hanover	Egan avenue.	1,355 56
12888	Both.	North avenue.	California avenue.	Wallace	638 41
12889	Both.	Lincoln	Polk	Kedzie avenue.	608 02
12890	Both.	Rockwell	West Twenty-second.	Taylor	118 95
12891	South.	Leland avenue.	Clark	Parnalee	576 90
12892	Both.	Currier	Augusta	Commercial avenue.	386 70
12893	Both.	Curtis	Huron	Chapin	198 15
12894	Both.	Wolcott avenue.	North Fifty-ninth.	May	152 50
12895	Both.	Wolcott avenue.	Wilson avenue.	Webster avenue	230 53
12896	Both.	Yeaton	Wood	Leland avenue	303 80
12897	South.	Washington	West Ravenswood park.	Lincoln.	84 00
12898	East.	Cypress	Ashland avenue.	Palmer	121 60
12899	South.	South Chicago avenue.	Seventy-fifth.	West Taylor	36 50
12901	Both.	Milwaukee avenue.	Fullerton avenue.	Chauncy avenue.	81 04
12902	Both.	Nassau	Fullerton avenue.	California avenue.	1,817 01
12903	Both.	Seldon.	Jackson.	Van Buren.	208 25
12904	Both.	Sheffield avenue.	Wood	Lincoln.	60 00
12905	Both.	Shober	Fullerton avenue.	Belmont avenue.	1,081 16
12906	Both.	McChesney avenue.	Division	North avenue.	423 95
12907	North.	Wolfgram	Sixty-fifth.	Sixty-seventh	673 83
12908	East.	Ashland avenue.	Southport avenue.	Perry avenue	90 00
12909	West.	Commercial avenue	Sunnyside avenue.	Leland avenue.	409 70
12940	Both.	Leland avenue.	Laurence avenue.	Wilson avenue.	385 54
12941	Both.	Colfax avenue.	C. & N.-W. R'y	Palmer avenue.	225 70
12942	Both.	Clinton	Sixty-fifth.	Sixty-seventh.	397 08
12943	Both.	Clinton	West Randolph.	Fulton.	236 51

12943	Both.	Evans avenue	Sixty-fifth.	Sixty-seventh	506 99
12944	East.	East Ravenswood park.	North Fifty-ninth.	Balmoral avenue.	111 20
12945	Both.	Francisco	Monroe.	Van Buren.	375 39
12946	North.	Wilson.	Wolcott avenue.	Palmer.	123 00
12947	Both.	Albany avenue.	Kinzie	The boulevard.	246 06
12948	Both.	Harmon court.	Michigan avenue.	State.	284 00
12965	Both.	Southport avenue	Lincoln avenue.	Belmont avenue.	180 25
12966	West.	Keeney avenue.	Wabansia avenue.	North avenue	208 68
12967	Both.	Napoleon place.	Stewart avenue.	Wallace	974 62
12968	Both.	Whitehouse place.	Wentworth avenue.	Stewart avenue.	200 28
12971	Both.	Florence avenue.	Diversey avenue.	Wrightwood avenue.	476 55
12972	Both.	Oakley avenue.	Hamburg	Milwaukee avenue.	1,145 20
12973	Both.	Robey	Fullerton avenue.	Armitage avenue	1,090 95
12974	Both.	Seymour avenue.	Division.	North avenue.	502 80
12975	Both.	Van Horn.	Robey.	Western avenue.	628 04
12976	Both.	Lafin	West Fourteenth.	West Eighteenth.	1,070 31
12977	North.	West Madison	West Forty-sixth	West Forty-eighth.	357 00
12978	Both.	West Twenty-third.	Kedzie avenue.	St. Louis avenue.	861 82
12979	Both.	Aberdeen.	Damen.	Taylor	168 87
12980	Both.	Ashland avenue.	Robey.	Olive.	340 92
12981	Both.	Holt.	Chicago avenue.	Augusta	292 85
12982	Both.	Hoynes avenue.	West Twenty-second.	Blue Island avenue.	96 00
12983	Both.	Lill place	Robey.	Hoynes avenue.	105 60
12984	Both.	Canal.	West Harrison.	West Twelfth.	249 00
12985	Both.	Desplaines.	West Adams.	West Harrison.	251 40
12986	Both.	Davis.	Wabansia avenue.	North avenue.	297 62
12987	Both.	Fifty-fourth.	Cottage Grove avenue.	Drexel avenue.	334 81
12988	Both.	West Van Buren.	Ashland avenue.	Wood	416 25
12989	Both.	Wallace.	Thirty-ninth	Forty-third.	1,025 85
12990	Both.	Whipple.	Colorado avenue.	Van Buren.	298 81
12991	Both.	Nellie avenue.	North Clark.	Sheffield avenue.	275 24
12992	Both.	Marianna	Racine avenue.	Southport avenue.	270 45
12993	West.	West Ravenswood park.	Leland avenue.	Lawrence avenue.	156 80
12994	West.	Commercial.	Belle Plaine avenue.	Graceland avenue.	155 24
12995	Both.	Argyle.	Evanston avenue.	Sheffield avenue.	1,876 92
12998	Both.	Seminary avenue.	Fullerton avenue.	Diversey avenue.	910 66
12999	Both.	La Salle	Archer avenue.	Twenty-sixth.	412 50
13000	Both.	Wrightwood avenue.	Orchard.	Racine avenue.	637 37
13001	Both.	Montana.	Lincoln avenue.	Racine avenue.	847 32
13002	Both.	Sherman	Fortieth	Forty-first.	829 88
13003	Both.	School.	Root	Forty-seventh.	835 70
13004	Both.	Thirty-fourth.	State	Indiana avenue.	373 15

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warr't	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
18005	Both.	St. Lawrence avenue.	Sixty-fifth.	Sixty-seventh.	\$ 762 26
18006	East.	Byrne avenue.	Woodward avenue.	Diversey avenue.	129 29
18007	Both.	Farwell avenue.	Sixty-fifth.	Sixty-seventh.	762 01
18008	Both.	Vincennes avenue.	Sixty-fifth.	Sixty-seventh.	798 84
18009	Both.	Jackson.	Fifty-fourth.	Fifty-fifth.	328 73
18010	Both.	Wilnot.	Leavitt.	Armitage avenue.	401 77
18011	Both.	Wright.	Thirty-ninth.	Forty-third.	728 14
18012	East.	Rockwell.	Parnalee.	West Twenty-sixth.	100 00
18013	North.	North Fifty-ninth.	Wright.	East Ravenswood Park.	180 87
18014	Both.	Pine.	Ashtland avenue.	East Ravenswood Park.	782 80
18038	North.	Irving Park boulevard.	C. & N.-W. R'y.	St. Charles avenue.	89 44
18082	Both.	West Forty-first.	West Madison.	West Kinzie.	219 24
18083	Both.	Moore.	Division.	Elm.	210 75
18084	Both.	Dunning.	Halsted.	Racine avenue.	806 97
18085	Both.	Thirty-second.	Laurel.	Ullman.	212 41
18086	Both.	Desplaines.	West Harrison.	West Polk.	880 21
18087	Both.	Flournoy.	Rockwell.	Washtenaw avenue.	640 05
18088	Both.	Dudley.	Chicago avenue.	Division.	198 00
18089	Both.	Dearborn.	Thirty-ninth.	Root.	119 60
18090	South.	Forty-sixth.	Grand boulevard.	State.	400 04
18181	Both.	Sheffield avenue.	Belmont avenue.	Graceland avenue.	1,764 57
18182	Both.	Clay.	Halsted.	Sheffield avenue.	306 25
18183	East.	Evans avenue.	Seventy-second.	Seventy-third.	119 53
18184	Both.	Seminary place.	Seminary avenue.	Racine avenue.	228 24
18185	Both.	North Clark.	Fullerton avenue.	Wellington.	1,197 28
18186	Both.	Napoleon place.	Stewart avenue.	Wentworth avenue.	414 64
18187	South.	Eighty-sixth.	Loomis.	Carpenter.	415 87
18188	Both.	Aberdeen.	Eighty-fifth.	Eighty-ninth.	606 28
18189	Both.	Canal.	Eighty-seventh.	Nineteenth.	783 16
18140	Both.	Carpenter.	Eighty-fourth.	Eighty-ninth.	521 16
18141	North.	Eighty-seventh.	Loomis.	Throop.	186 86
18142	South.	Eighty-seventh.	Throop.	May.	173 00
18143	South.	Eighty-eighth.	Throop.	Aberdeen.	108 40
18144	North.	Eighty-eighth.	Carpenter.	Peoria.	100 00
18145	Both.	Gilbert place.	C. & P. R'y.	Vincennes avenue.	60 00
18146	Both.	Jefferson.	Vincennes road.	Ninety-first.	1,223 14

13147	Both.	Murray	Vincennes road	Ninety-first.	661 05
13148	East.	Stewart avenue.	Archer avenue.	Thirty-third.	145 00
13149	Both.	Union	Vincennes road.	Ninetieth.	794 24
13150	Both.	Throop	Eighty-sixth.	Eighty-ninth.	172 69
13151	Both.	Wallace.	Eighty-seventh.	Ninetieth.	784 08
13152	East.	Wabash avenue.	Sixty-second.	Sixty-third.	166 00
13153	Both.	McReynolds.	Wood.	Ashland avenue.	40 00
13154	Both.	Rice.	Robey.	Leavitt.	172 16
13155	Both.	Moorman	Paulina.	Lull.	74 88
13156	South.	Forty-seventh.	State.	Grand boulevard	185 40
13178	North.	Egan avenue.	Ellis avenue.	Cottage Grove avenue	144 00
13179	Both.	Dudley.	North avenue.	Armitage avenue.	1,518 68
13180	Both.	Elk Grove.	North avenue.	Armitage avenue	1,744 94
13181	Both.	Dobson.	Seventy-seventh.	Seventy-ninth.	733 88
13182	Both.	Oakley avenue.	West Division.	Wabansia avenue.	1,177 38
13183	Both.	Elston avenue.	Fullerton avenue.	Snow.	867 80
13184	Both.	West Twenty-second	Trumbull avenue.	Lawndale avenue	616 40
13185	North.	One Hundredth.	Avenue K.	Avenue L.	100 00
13186	Both.	Everett.	Armitage avenue.	Fullerton avenue.	1,262 15
13187	North.	Armitage avenue.	St. Charles avenue.	Alley West of Washington avenue.	173 28
13188	North.	Fullerton avenue.	Columbia avenue.	Keeney avenue.	267 12
13189	North.	Prescott.	Jefferson avenue.	C., M. & St. P. R'y.	872 05
13190	North.	Selwyn avenue.	St. Charles avenue.	Park avenue.	62 40
13191	West.	Springfield avenue.	Prescott.	Montrose boulevard	528 00
13192	East.	Irving Park boulevard.	Armitage avenue.	Dickens avenue.	188 60
13193	West.	Park avenue.	Prescott	Everett.	314 65
13194	North.	West Chicago avenue.	Selwyn avenue.	St. Charles avenue.	62 40
13195	East.	West Nineteenth	Willis	Center.	99 20
13214	North.	Avenue A.	West Forty-sixth.	West Fifty-first.	384 00
13215	Both.	Drexel avenue.	Blue Island avenue.	Ashland avenue	100 00
13216	West.	Western avenue.	Sixty-ninth.	Seventieth.	53 90
13217	West.	West Twenty-second	Seventy-third.	Seventy-fifth.	110 18
13218	Both.	Crawford avenue.	North avenue.	Fullerton avenue.	606 33
13219	Both.	West Twenty-second	Western avenue.	Trumbull avenue.	3,815 71
13220	East.	Coventry.	West Taylor	Wis. Central R'y.	63 44
13221	West.	Twenty-seventh.	Armitage avenue.	C., M. & St. P. R'y	614 97
13266	West.	Lumber.	North avenue	Wabansia avenue.	176 51
13267	Both.	Oakwood avenue.	Stewart avenue.	Hanover.	823 88
13268	South.	Oakdale avenue.	Halsted	Quarry	257 25
13269	West.	Oakdale avenue.	West Eighteenth.	Union.	851 81
13270	North.	Oakdale avenue.	Drexel boulevard	Ill. Central R'y.	85 23
13271	South.	Oakdale avenue.	North Clark.	Evanston avenue.	60 00

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warr'nt	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13272	Both.	Deming court.	North Clark.	Lake View avenue.	\$7883 50
13273	Both.	Seventy-ninth.	Halsted.	Western avenue.	8,032 86
13274	Both.	Forty-second.	Cottage Grove avenue.	Vincennes avenue.	888 94
13275	Both.	Roscoe.	Robey.	Western avenue.	492 48
13276	Both.	Ann.	Fulton.	Kinzie.	70 00
13277	North.	Sixty-sixth.	Stewart avenue.	Sherman.	345 06
13278	Both.	Langley avenue.	Sixty-fifth.	Sixty-seventh.	231 61
13279	Both.	Sixty-third.	Wentworth avenue.	C. & W. I. R'y.	599 78
13280	Both.	Franklin avenue.	Wallace.	Thomas avenue.	278 25
13281	Both.	Centre avenue.	Eighty-fifth.	Eighty-ninth.	872 60
13282	Both.	Desplaines.	Vincennes avenue.	Ninety-first.	561 00
13283	Both.	Eighty-seventh.	Stewart avenue.	C. R. I. & P. R'y.	838 77
13284	Both.	Eighty-ninth.	C., R. I. & P. R'y.	Stewart avenue.	870 59
13285	Both.	Groveland.	C., R. I. & P. R'y.	Vincennes avenue.	667 52
13286	West.	Morgan.	Eighty-fifth.	Eighty-ninth.	459 75
13287	Both.	May.	Eighty-fifth.	Eighty-seventh.	208 76
13288	South.	Walnut.	Ashland avenue.	East Ravenswood Park.	351 40
13289	Both.	Eighty-eighth.	C., R. I. & P. R'y.	C. & W. I. R'y.	1,010 61
13290	North.	Eighty-ninth.	Morgan.	Throop.	387 69
13291	Both.	Walcott.	Lawrence avenue.	Wilson.	78 60
13292	Both.	Dean.	Brigham.	Paulina.	61 28
13293	Both.	Crystal.	Leavitt.	Eastern terminus.	144 01
13294	Both.	Paulina.	Wabansia avenue.	Armitage avenue.	1,009 00
13295	Both.	Emily.	Ashland avenue.	Wood.	132 80
13296	Both.	Davis.	North avenue.	Division.	808 67
13297	Both.	Morgan.	Eighteenth.	Twenty-second.	860 00
13298	West.	Barclay.	West Division.	Augusta.	180 16
13299	Both.	Heine.	Cleveland avenue.	West line sub-jot 17.	183 08
13300	West.	West Ravenswood park.	Wilson avenue.	Leland avenue.	76 80
13301	Both.	Dickens avenue.	Sheridan.	Kimball avenue.	264 55
13302	East.	Ballou avenue.	Armitage avenue.	Dickens avenue.	150 06
13303	East.	Sixty-eighth.	Humboldt avenue.	Fullerton avenue.	885 96
13304	South.	Sixty-eighth.	State.	Prairie avenue.	145 28
13305	East.	Clark.	Twelfth.	Sixteenth.	350 74
13306	Both.	Clark avenue.	Ninety-second.	Ninety-fourth.	251 65
13307	East.	Clark avenue.	Ninety-fifth.	C., R. I. & P. R'y.	61 60

13908	East	Crawford avenue	Irving Park boulevard	Warren avenue	32 00
13809	Both	Chase	North avenue	Bloomingtondale road	38 40
13810	Both	Fury-second	Vincennes avenue	St. Lawrence avenue	48 96
13911	Both	Humboldt	Armitage avenue	Palmer avenue	315 00
13812	South	Englewood avenue	Wallace	Halsted	90 20
13826	Both	Aberdeen	Sheffield avenue	Evanston avenue	609 23
13831	Both	West Jackson	Canal	Halsted	2,088 05
13885	North	Rebecca	Blue Island avenue	Wood	851 10
13886	Both	Archer avenue	State	Halsted	3,010 81
13897	Both	Nelson	Blucher	Soult	266 00
13499	Both	Harvard	California avenue	Campbell avenue	89 20
13412	Both	Vincennes avenue	Douglas avenue	Egan avenue	8,886 83
13414	Both	Belmont avenue	Western avenue	Elston avenue	1,846 00
13416	East	Hoyle avenue	Noble avenue	Clybourn avenue	426 69
13417	North	Englewood avenue	Stewart avenue	School	214 60
13418	West	Crawford avenue	Diversey avenue	Belmont avenue	225 00
13420	Both	North Fifty-ninth	C. & N. W. R'y.	Walcott avenue	173 38
13428	Both	Clybourn place	Ashland avenue	Robey	855 66
13430	Both	Frank	Surf	Diversey avenue	309 40
13442	Both	Groveland avenue	Twenty-ninth	Northern terminus	175 80
13486	Both	Paulina	Archer avenue	Thirty-eighth	6,123 57
13487	East	Crawford avenue	Twenty-second	Thirty-third	1,888 88
13488	Both	Ontario	Franklin	Kingsbury	200 79
13489	Both	Ingelhart place	Twenty-seventh	Terminus line	191 88
13490	South	Eighty-eighth	Superior avenue	Mackinaw avenue	168 00
13491	West	Ewing avenue	Ninety-second street bridge	Ninety-fifth	277 88
13492	North	Fifty-fourth	Cottage Grove avenue	Drexel avenue	176 66
13493	Both	Loomis	Eighty-fifth	Eighty-seventh	302 07
13494	Both	Logan avenue	Eighty-seventh	Ninetieth	976 85
13495	Both	Elizabeth	Eighty-sixth	Eighty-ninth	372 81
13496	Both	Clinton	Eighty-seventh	Ninetieth	520 88
13497	Both	Eighty-fifth	Aberdeen	Lafin	1,088 85
13498	Both	Caroline avenue	Eighty-fifth	Eighty-sixth	209 14
13499	Both	Shurtleff avenue	One Hundred and fifteenth	One Hundred and nineteenth	457 40
13500	North	Laurence avenue	Indian boundary line	Austin avenue	889 80
13501	Both	Perry	Austin avenue	Indian boundary line	801 11
13502	Both	Lincoln	West Eighteenth	West Nineteenth	394 81
13503	Both	Dearborn	One Hundred and fifteenth	One Hundred and nineteenth	943 82
13504	Both	Grant	Austin avenue	Indian boundary line	904 99
13505	Both	Butler	Twenty-fourth	Twenty-ninth	2,698 23
13506	East	Drexel avenue	Fifty-fifth	One Hundred and eighty-four feet North	68 00
13507	South	South Chicago avenue	Seventy-first	Seventy-fifth	1,664 20

DEPARTMENT OF PUBLIC WORKS.

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13508	East	Hamlin avenue.	West Sixteenth.	Douglas Park boulevard	\$ 334 90
13509	Both	Stony Island avenue.	Sixty-seventh.	Sixty-eighth.	404 91
13510	Both	Sixty-seventh.	Ill. Cent. R. R.	Stony Island avenue.	627 48
13511	South.	Colorado avenue.	Fortieth.	Forty-first.	228 76
13512	North.	Hein.	Sedgwick.	Four hundred & seventy-first west of west line	154 37
13513	North.	Douglas.	Allen avenue.	Selwyn avenue.	536 12
13514	Both.	Commercial avenue.	Eighty-seventh.	Ninety-second.	280 00
13515	North	Forty-seventh	Kedzie avenue.	Archer avenue.	685 22
13516	North.	Fillmore.	Albany avenue.	Sacramento avenue.	100 00
13517	West.	Champlain avenue.	Seventy-first.	Seventy-second.	80 00
13518	East	Hosmer avenue.	Wabasha avenue.	C., M. & St. P. R'y.	359 55
13519	Both.	Hundred and eighteenth.	State.	Dearborn avenue.	100 00
13520	West.	Hosmer avenue.	Grand avenue.	C., M. & St. P. R'y.	110 82
13521	Both.	Sixty-first.	Throop.	Ashland avenue.	662 65
13522	West.	Francisco.	Cortez.	Thomas.	79 37
13523	West.	State.	C. & E. I. R. R.	Hundred and nineteenth.	215 78
13524	Both.	Robey.	Blue Island avenue.	The river.	600 00
13525	Both.	Flournoy.	California avenue.	Francisco.	76 00
13526	Both.	Nineteenth.	Manistee avenue.	The Strand.	4,798 80
13527	Both.	Rice.	Twenty-second.	Parnallee	557 00
13528	Both.	Prairie avenue.	Hundred and thirty-third.	Hundred and thirty-fourth.	108 48
13529	Both.	Irving place.	Kinzie.	Fulton.	232 48
13530	Both.	West Adams.	Central Park avenue.	Kedzie avenue.	297 00
13532	Both.	Forty-fourth.	Langley avenue.	Cottage Grove avenue.	280 64
13535	Both.	Ashland avenue.	Seventy-first.	Seventy-ninth.	1,116 74
13554	East.	Cottage Grove avenue.	Bowen.	Fortieth.	130 25
13606	Both.	Avenue L.	Hundredth.	Hundred and seventh.	562 01
13607	Both.	Wood.	Archer avenue.	Thirty-ninth.	3,059 85
13608	Both.	Vernon avenue.	Thirty-seventh.	Egan avenue.	2,233 49
13609	Both.	Desplaines.	Eighty-seventh.	Eighty-ninth.	130 00
13610	East.	Ladlin.	Eighty-fifth.	Eighty-sixth.	119 40
13611	Both.	Halsted.	Vincennes road.	Nineteenth.	632 32
13612	Both.	Wentworth avenue.	Hundred and fifteenth.	Hundred and sixteenth.	819 90
13613	Both.	Halsted.	Fifty-seventh.	Sixty-ninth.	2,808 75
13614	Both.	Hundred and sixteenth.	State.	Halsted.	1,178 45
13615	Both.	Milwaukee avenue.	Western avenue.	California avenue.	1,842 83

13616	South.	Hundred and fifteenth.	State	Halsted	652 00
13617	Both.	West Fifteenth.	Central Park avenue.	Lawdale avenue.	244 00
13618	South.	Rebecca	Washienaw avenue.	Rockwell.	19 20
13619	West.	Wallace.	Fifty-first.	Fifty-second.	184 68
13620	Both.	Sixty-eighth.	Stony Island avenue.	Yates avenue.	8,271 50
13621	Both.	Hundred and seventh.	Avenue G.	Avenue K.	144 06
13624	Both.	Gross avenue.	Ninety-second.	Ninety-third.	380 37
13625	Both.	Troy.	Colorado avenue.	Jackson.	100 00
13626	East.	Gross avenue.	Courtland avenue.	Two hundred feet south.	57 45
13627	South.	Ninety-second.	Jeffrey avenue.	Rupp avenue.	100 00
13628	West.	Minnehaha avenue.	Ninety-third.	Ninety-fourth.	230 62
13629	West.	Garvin avenue.	Ninety-second.	Ninety-third.	230 44
13630	West.	Juniaata avenue.	Ninety-fifth.	C., R. I. & P. R'y.	61 60
13631	West.	Juniaata avenue.	Ninety-first.	Ninety-third.	866 43
13633	Both.	Forty-second.	Ellis avenue.	Lake avenue.	144 40
13634	Both.	Avenue H.	Hundred and sixth.	Hundred and ninth.	778 19
13635	Both.	Storms avenue.	Seventy-seventh.	Seventy-eighth.	270 72
13637	South.	Seventy-fifth.	Railroad avenue.	Bond avenue.	292 10
13642	Both.	Land avenue.	Palmer	West Ravenswood Park	263 75
13643	Both.	Sixty-third.	Halsted.	Wallace	1,248 70
13648	Both.	Luella avenue.	Ninety-second.	Ninety-third.	213 27
13649	North.	Ninety-fifth.	Juniaata avenue.	Garvin avenue.	631 50
13650	Both.	Rupp avenue.	Ninety-second.	Ninety-third.	880 18
13651	Both.	Cloud	West Polk.	Ninety-third	403 36
13652	Both.	Campbell avenue.	Hoynes avenue.	West Twelfth.	170 20
13653	South.	Hamburg	Durham avenue.	Leavitt.	281 77
13654	South.	Armitage avenue.	Armitage avenue.	Grand avenue.	281 77
13655	West.	Evans avenue.	Seventy-second.	Seventy-third.	40 00
13656	Both.	Fiftieth.	Robey.	Leavitt.	618 84
13657	Both.	Fulton.	Homan avenue.	Central Park avenue.	459 79
13658	North.	North avenue.	Oglesby avenue.	Ballou avenue.	149 60
13659	West.	Mozart avenue.	Armitage avenue.	Palmer avenue.	216 00
13660	South.	Illinois avenue.	Eighty-fifth.	Ill. Cent. R'y.	892 72
13661	South.	Irving Park boulevard.	Ridgeland avenue.	Two hundred and fifty feet west.	100 00
13662	North.	Wade.	Elston avenue.	C. & N.-W. Ry.	196 56
13663	Both.	Exchange avenue.	Eighty-seventh.	Ninety-second.	963 90
13664	Both.	Blackhawk avenue.	Halsted.	Hawthorn avenue.	508 63
13665	West.	Ellis avenue.	Seventy-fourth.	Hundred & twenty-fifth, north of Seventy-fifth	116 50
13666	East.	Baxter.	School.	Roscoe	100 07
13667	Both.	Flournoy.	Central Park avenue.	Genessee avenue.	384 78
13668	Both.	Durham avenue.	Dickens avenue.	Humboldt avenue.	153 44
13669	Both.	Durham avenue.	Armitage avenue.	Fullerton avenue.	360 36

DEPARTMENT OF PUBLIC WORKS.

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13670	Both.	Cross.	Colorado avenue.	Harrison.	\$ 320 57
13671	East.	Maplewood avenue.	Fullerton avenue.	Humboldt boulevard.	859 83
13672	Both.	Sheffield avenue.	North avenue.	Hawthorne avenue.	119 80
13673	Both.	Troy avenue.	West Ohio.	Boulevard.	329 29
13674	Both.	Canal.	Eighteenth.	River.	1,456 17
13675	Both.	South Chicago avenue.	South Park avenue.	Seventy-first.	588 23
13676	Both.	Seventy-second.	St. Lawrence avenue.	Champlain avenue.	110 58
13677	East.	Ingliside avenue.	Fifty-fifth.	Fifty-seventh.	875 86
13678	Both.	Weed.	Clybourn avenue.	Hawthorne avenue.	428 69
13679	Both.	Troy.	Twelfth.	Fillmore avenue.	293 83
13707	Both.	Lexington avenue.	Central Park avenue.	Genesee.	893 19
13715	Both.	Wallace.	Fifty-fifth.	Fifty-ninth.	950 57
13716	Both.	Richmond avenue.	Evergreen avenue.	Diversey avenue.	360 00
13750	Both.	Atlantic.	Thirty-ninth.	Goshen.	780 71
13751	Both.	California avenue.	North avenue.	Milwaukee avenue.	1,496 64
13752	Both.	West Congress.	California avenue.	Albany avenue.	715 49
13792	Both.	Aldine.	Egan avenue.	Northern terminus.	1,570 52
13793	Both.	Polk.	State.	Clark.	2,990 00
13794	Both.	Twenty-ninth.	South Park avenue.	State.	2,542 11
13795	Both.	Fifty-third.	Cottage Grove avenue.	Drexel avenue.	1,329 80
13796	Both.	Elmwood place.	Thirty-eighth place.	Egan avenue.	642 50
13797	Both.	Thirteenth.	State.	Cottage Grove avenue.	2,010 66
13798	Both.	Kenwood place.	Vincennes avenue.	Grand boulevard.	1,878 03
13799	Both.	Forty-fourth.	Cottage Grove avenue.	Drexel boulevard.	769 78
13800	West.	Wallace.	Fifty-second.	Fifty-fifth.	574 00
13801	Both.	Twenty-eighth.	Halsted.	First alley east.	141 90
13802	West.	Huck avenue.	Lawrence avenue.	Clay avenue.	507 40
13803	Both.	Cottage Grove avenue.	Seventy-fifth.	Eighty-seventh.	3,678 71
13804	Both.	St. Lawrence avenue.	Forty-fifth.	Forty-sixth.	183 63
13805	Both.	West Van Buren.	Cross.	Central Park avenue.	179 66
13806	Both.	South Park avenue.	Sixty-first.	Sixty-seventh.	1,642 86
13807	Both.	West Harrison.	Central Park avenue.	Garfield boulevard.	397 95
13808	Both.	West Congress.	California avenue.	Rockwell.	487 86
13809	Both.	Fifty-second.	Woodlawn avenue.	Greenwood avenue.	1,852 96
13810	West.	Vincennes avenue.	Eighty-seventh.	Ninety-fifth.	911 04
13811	North.	Lawrence avenue.	Holcomb avenue.	Elston avenue.	1,679 43

18812	East	Elston avenue.	Montrose boulevard.	Lawrence avenue.	795 38
18813	West	Elston avenue.	Washington	Montrose boulevard.	414 40
18814	Both	Fulton avenue.	California avenue	Homer avenue.	899 02
18815	Both	Centre.	Montrose boulevard.	Lawrence avenue.	1,359 54
18816	East	Selwyn avenue.	Montrose boulevard.	Everett.	468 74
18817	Both	Palmer avenue.	Sixty-seventh.	Seventy-first	1,965 79
18818	Both	Emerald avenue.	Forty-second.	Forty-seventh.	923 22
18819	Both	Emerald avenue.	Egan avenue.	Forty-first.	845 60
18820	Both	Whipple.	Twenty-sixth.	Twenty-eighth	273 46
18821	Both	Richmond.	Humboldt boulevard.	Diversey avenue.	592 40
18822	Both	West Sixteenth.	Halsted.	Johnson	166 20
18823	South	Fiftieth court.	Union avenue	Halsted.	188 55
18824	Both	Ninety-eighth.	Escanaba avenue	Commercial avenue.	378 83
18825	South	Fifty-second.	Halsted.	Morgan.	932 24
18826	Both	West Fifteenth.	California avenue.	Rockwell.	319 88
18827	Both	Drexel avenue.	Fifty-fifth.	Fifty-ninth.	1,369 89
18828	Both	Grand avenue.	Chicago avenue.	C., M. & St. P. R'y.	820 03
18879	Both	Rush.	Erie.	Chicago avenue.	614 00
18880	East	Columbia avenue.	Humboldt avenue.	Fullerton avenue.	251 00
18881	North	Grand avenue.	North avenue.	C., M. & St. P. R'y.	528 20
18882	Both	Addison avenue.	North Clark.	Lake Michigan.	1,554 38
18883	Both	Avenue K.	Hundred and eighth.	Hundred and twelfth.	511 70
18884	East	Greenwood avenue.	Irving Park boulevard.	Central.	470 00
18885	Both	Twenty-second.	Crawford avenue	Forty-sixth.	1,874 11
18886	Both	St. Louis avenue.	West Lake.	West Kinzie.	688 79
18887	Both	Wright.	Sixty-fifth.	Sixty-fifth court.	222 56
18888	South	Fiftieth.	Cook.	Throop.	124 50
18889	East	Selwyn.	Douglas.	Everett.	75 00
18890	West	Fiftieth.	Kinzie.	Chicago avenue.	424 00
18891	East	Forty-eighth.	Humboldt avenue.	Dickens avenue.	57 73
18892	East	Vannatta avenue.	Dickens avenue.	Armitage avenue.	246 45
18893	Both	Ridge avenue.	Webber avenue.	Church road.	663 34
18894	Both	Hundred and fifth.	Ewing avenue.	Avenue E.	828 40
18894	Both	Hundred and fourth.	Ewing avenue.	Avenue F.	629 40
18895	South	George.	Halsted	May.	140 25
18896	West	Crawford avenue.	Everett.	Milwaukee avenue.	1,125 25
18897	Both	Fifty-seventh.	Halsted.	Centre avenue.	960 00
18898	South	Irving Park boulevard.	Elston avenue.	Park avenue.	983 00
18899	East	Irving avenue.	Everett.	Warner avenue.	210 00
18900	South	Everett avenue.	Crawford avenue	C., M. & St. P. R'y.	795 00
18901	East	Oglesby avenue.	Sixtieth.	Sixty-first.	341 72
18902	West	Ellis park.	Thirty-sixth.	Thirty-seventh.	367 20

DEPARTMENT OF PUBLIC WORKS.

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warr't	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13903	South.	Augusta.	Hamlin avenue.	Central Park avenue	\$ 306 85
13904	Both.	Union avenue.	Egan avenue.	Forty-seventh.	1,831 88
13905	South.	Fifty-eighth.	Halsted.	Stewart avenue.	520 80
13906	Both.	Jay.	Centre.	Fullerton avenue.	5,543 07
13926	Both.	Sulzer.	Halsted.	Sheffield avenue.	499 30
13949	Both.	Forty-third.	Ashland avenue.	Western avenue.	2,494 18
13958	Both.	Mather.	Canal.	Clinton.	49 68
13988	Both.	Forty-seventh.	Halsted.	State.	8,209 16
14052	South.	Sixty-fifth court.	Stewart avenue.	Honore.	838 45
14055	Both.	Sixteenth.	California avenue.	Western avenue.	1,530 46
14056	North.	Washington.	West Forty-second.	West Forty-third.	251 06
14057	West.	Kedzie avenue.	Fifty-fifth.	Fifty-seventh.	401 00
14058	West.	Harding avenue.	Twenty-sixth.	Thirty-first.	369 91
14061	South.	Oak Grove avenue.	Clark.	Racine avenue.	154 00
14062	West.	North Clark.	North Fifty-ninth.	City limits.	2,173 00
14063	West.	Geraldine.	Irving Park boulevard.	C. & N.-W. R'y.	940 00
14068	Both.	Milwaukee avenue.	Warner avenue.	Belmont avenue.	1,000 00
14070	Both.	Owaco.	Rockwell.	California avenue.	470 60
14071	Both.	Thirty-first.	Stewart avenue.	Halsted.	1,856 85
14124	Both.	Kensington avenue.	Front.	Michigan.	548 00
14125	East.	Albany avenue.	West Ohio.	West Chicago avenue.	470 00
14126	Both.	Free.	Lawrence avenue.	Indian boundary line.	540 40
14127	West.	Crawford avenue.	West Congress.	West Van Buren.	150 00
14128	Both.	Elston avenue.	Montrose boulevard.	Irving avenue.	380 00
14129	Both.	Courtland.	Hamlin avenue.	Irwin avenue.	360 00
14180	West.	Centre avenue.	Franklin.	Lawrence avenue.	563 00
14181	West.	Langley avenue.	Seventy-first.	Seventy-second.	105 00
14182	West.	Ashland avenue.	Franklin.	Montrose avenue.	140 00
14188	West.	Hinckley avenue.	North avenue.	Wabansia avenue.	225 00
14184	North.	Armitage avenue.	Jackson.	Grand avenue.	414 00
14185	East.	Irving avenue.	Willis.	Centre.	360 00
14186	Both.	Armour avenue.	Egan avenue.	Root.	180 05
14187	North.	Franklin.	Hunting avenue.	Park avenue.	250 00
14188	Both.	Hofman avenue.	Franklin.	Evergreen avenue.	315 00
14189	West.	Crawford avenue.	Bloomington road.	Courtland avenue.	297 00
14141	Both.	Augusta.	Western avenue.	Rockwell.	260 00

14142	North	Colorado avenue.	Fortieth	Forty-first.	255 00
14148	Both.	Douglas avenue.	Washington avenue.	Greenwood avenue.	800 00
14144	East.	Elston avenue.	Division	Blackhawk.	500 00
14145	West.	Kimball avenue.	Milwaukee avenue.	Fullerton avenue.	160 00
14147	West.	Homan avenue.	Twenty-second.	Rockwell.	280 00
14148	West.	West Twentieth.	Rockwell.	Washtenaw avenue.	120 00
14149	Both.	Wabansia avenue.	Humboldt Park boulevard.	Kedzie avenue.	594 00
14150	Both.	Fiftieth.	Ashland avenue.	Western avenue.	1,270 00
14151	North.	Fifty-ninth.	Stewart avenue.	Wallace.	400 00
14152	Both.	Fifty-sixth.	Wallace.	Centre avenue.	485 00
14153	South.	Sixtieth.	Wallace.	Wright.	265 00
14154	East.	Dawson avenue.	Milwaukee avenue.	Gardner avenue.	427 00
14155	Both.	Fifty-sixth.	Jefferson avenue.	Washington avenue.	260 00
14156	Both.	Fifty-eighth.	Ellis avenue.	Cottage Grove avenue.	800 00
14157	West.	Forty-eighth.	Chicago avenue.	Iowa.	175 00
14158	Both.	Lincoln avenue.	Halsted	Racine avenue.	165 00
14159	East.	North Clark.	Graceland avenue.	Sulzer	1,000 00
14160	West.	West Sixteenth.	Johnson	Throop.	470 00
14161	West.	Thomas.	Diversey avenue.	Gardner avenue.	449 00
14162	Both.	Robey.	Bloomington road.	Clybourn avenue.	260 00
14163	Both.	Twenty-fourth.	Kedzie avenue.	St. Louis.	620 00
14164	South.	Belmont avenue.	Hoyle avenue.	C. & N. W. R'y.	725 00
14165	West.	Dixon.	Wabansia avenue.	Bloomington road.	190 00
14166	Both.	Emery.	Hamlin avenue.	Avers avenue.	175 00
14167	Both.	Jefferson avenue.	Fifty-sixth.	Fifty-seventh.	210 00
14191	Both.	West Washington.	West Fortieth.	West Fifty-second.	2,817 29
14192	Both.	Eighty-third.	Halsted	Vincennes avenue.	892 60
14193	Both.	Cottage Grove avenue.	Fifty-ninth.	Sixty-seventh.	967 63
14195	Both.	Central Park avenue.	West Division.	North avenue.	955 13
14197	Both.	West Polk.	Centre	Lytle.	28 80
14210	Both.	Halsted.	South Branch	Egan avenue.	1,985 86
14220	Both.	Forest avenue.	Fullerton avenue.	Elston avenue.	1,725 00
14226	Both.	Morgan.	Wright	C. & B. & Q. R. R.	226 80
14261	Both.	Whiting	Wells.	To its western terminus.	472 84
14262	Both.	Bonney avenue.	Sixteenth.	Douglas boulevard.	683 86
14263	Both.	Jefferson	West Madison	West Kinzie.	1,164 43
14264	Both.	Johnston.	Wright	Sixteenth.	694 35
14265	South.	Morris.	Wright	Wallace.	155 01
14266	East.	Cottage Grove avenue.	Douglas avenue.	Egan avenue.	745 94
14267	Both.	Fairfield avenue.	West Twelfth.	Harrison	603 82
14268	North.	Nineteenth.	C. & R. I. & P. R'y.	C. & W. I. R'y.	636 48
14269	East.	Stony Island avenue	Seventy-third.	Seventh-ninth.	1,114 68

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warr'n	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
14270	Both.	Ontario avenue.	Eighty-ninth	South Chicago avenue.	\$ 2,025 35
14273	Both.	California avenue.	Twelfth.	Twenty-sixth.	1,157 04
14274	Both.	Market.	Van Buren.	Its southern terminus	504 88
14275	Both.	Crawford avenue.	Madison.	Harrison.	909 73
14276	Both.	Lake.	Fifty-first.	Fifty-seventh.	8,755 49
14278	West.	Jefferson avenue.	Lawrence avenue.	Elston road	547 17
14309	East.	McLane avenue.	Kimball avenue.	Rallou.	80 00
14310	West.	Crawford avenue.	Irving Park boulevard.	North branch Chicago river.	1,267 00
14311	South.	Belmont avenue.	Jefferson avenue.	Milwaukee avenue.	1,250 00
14312	South.	York.	Marshfield avenue.	First alley west.	69 00
14314	East.	Elston avenue.	C. & N.-W. R'y.	Division	674 00
14315	South.	Washington.	West Ravenswood park.	Robey.	210 00
14316	Both.	Florence avenue.	Fortieth.	Forty-second.	379 56
14317	West.	Kimball avenue.	Fullerton avenue.	Diversey avenue.	150 00
14319	East.	Winston avenue.	Ninety-fifth	Ninety-ninth.	663 00
14320	Both.	Sixty-second	Kedzie avenue.	Grand Trunk R'y.	1,000 00
14321	Both.	Clifton Park avenue.	Douglas Park boulevard.	Ogden avenue.	1,660 00
14322	Both.	Goodspeed.	Forty eighth	Fifty-second.	1,110 00
14323	Both.	West Twenty-first.	Hamlin avenue.	Crawford avenue.	880 00
14324	South.	Palatine avenue.	Kedzie avenue.	Grand Trunk R. R.	426 00
14325	North.	Forty-ninth	Halsted	Morgan	511 00
14326	North.	Pearl.	Prospect avenue.	Wood	295 00
14327	Both.	Emerald avenue.	Eightieth.	Eighty-first.	390 00
14328	Both.	Drexel avenue.	Sixtieth.	Sixty-first.	510 00
14404	Both.	Railroad avenue.	Garden	California avenue.	450 00
14406	Both.	Indiana boulevard.	Ewing avenue.	Hundred and third.	940 73
14407	Both.	Carpenter.	Fifty-fifth.	Sixty-third.	696 12
14408	Both.	Morgan.	Fifty-third	Fifty-seventh.	596 64
14413	Both.	Central Park avenue.	West Twenty-second.	Boulevard.	1,468 94
14414	Both.	Hundred and eighth.	Avenue G.	Avenue P.	700 71
14417	Both.	Seventy-fifth	Ill. Cent. R. R. (main line)	Jeffrey avenue.	1,567 32
14429	Both.	Harvard.	Campbell avenue.	California avenue.	486 86
14439	East.	Crawford avenue.	Harvard	Wis. Cent. R'y.	280 00
14440	South.	Lawrence avenue.	Elston avenue.	Crawford avenue.	1,485 00
Total.					\$383,844 08

STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS.

No. of Warrant	No. of Lamps.	NAME OF STREET.	FROM	TO	AMOUNT.
12392	25	Sixty-fifth.....	Woodlawn avenue.....	Cottage Grove avenue.....	\$ 781 25
12399	9	Johnson.....	Wright.....	West Sixteenth.....	272 25
12403	26	Wood.....	Fifteenth.....	Blue Island avenue.....	760 50
12404	11	Loomis.....	Fourteenth.....	Sixteenth.....	392 75
12416	15	Lexington.....	Rockwell.....	California avenue.....	453 75
12418	11	Lafin.....	West Fourteenth.....	West Sixteenth.....	392 75
12421	12	Milwaukee avenue.....	Western avenue.....	California avenue.....	863 00
12425	29	Grace.....	Racine avenue.....	Eastern terminus.....	848 25
12426	6	Star avenue.....	Jackson Park terrace.....	Sixty-fourth.....	211 75
12427	7	Forty-second place.....	St. Lawrence avenue.....	Vincennes avenue.....	181 50
12454	3	Huron.....	Kingsbury.....	Western terminus.....	96 75
12455	8	Sacramento avenue.....	Fulton.....	West Kinzie.....	242 00
12456	12	Columbia place.....	West Lake.....	West Kinzie.....	863 00
12647	7	Heine place.....	Sedgwick.....	Cleveland avenue.....	211 75
13061	14	West Superior.....	Western avenue.....	Rockwell.....	423 50
13062	19	Milwaukee avenue.....	Fullerton avenue.....	Logan square.....	574 75
13063	32	West Chicago avenue.....	California avenue.....	Kedzie avenue.....	986 00
13067	40	Fullerton avenue.....	Western avenue.....	Milwaukee avenue.....	1,170 00
13068	23	Fullerton avenue.....	Milwaukee avenue.....	Kedzie avenue.....	680 75
13069	30	Fullerton avenue.....	Elston avenue.....	Western avenue.....	877 50
13070	45	West Chicago avenue.....	Leavitt.....	California avenue.....	1,316 25
13124	12	Osgood.....	West Chicago avenue.....	Centre.....	363 00
13161	31	Ogden avenue.....	Clybourn avenue.....	Crawford avenue.....	906 75
13162	7	Troy.....	Lawndale avenue.....	West Thirtieth.....	211 75
13163	4	Twenty-third.....	West Twelfth.....	Lawndale avenue.....	123 50
13164	16	Central Park avenue.....	Central Park avenue.....	West Twenty-sixth.....	484 00
13166	15	West Monroe.....	West Twenty-fourth.....	Central Park avenue.....	453 75
13168	29	West Adams.....	Homan avenue.....	Central Park avenue.....	848 25
13206	5	Wrightwood avenue.....	Kedzie avenue.....	Central Park avenue.....	151 25
13238	11	Windsor avenue.....	Racine avenue.....	C. & E. R'y.....	392 75
13239	52	Union avenue.....	Halsted.....	Sheffield avenue.....	1,521 00
13240	8	Farrell.....	Thirty-first.....	Egan avenue.....	242 00
13241	11	School.....	Hickory.....	Archer avenue.....	392 75
13242	12	Racine avenue.....	Evansston avenue.....	Halsted.....	863 00
13243	6	Thirty-eighth.....	Belmont avenue.....	Roscoe.....	181 50
13246	32	Lincoln avenue.....	Indiana avenue.....	Grand boulevard.....	936 00
			Belmont avenue.....	Addison avenue.....	

STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS—CONTINUED.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
13247	13	Wilson avenue.	Sheffield avenue.	Halsted.....	\$ 393 25
13248	7	Edgecomb court.	Sheffield avenue.	Evanson avenue.....	211 75
13251	7	Albany avenue.	West Twelfth.	Fillmore.....	211 75
13252	22	Jane	Western avenue.	Washtenaw avenue.....	655 00
13253	7	Eleventh.....	Blue Island avenue.....	May.....	211 75
13254	7	Hampden court.....	Deming court.....	Wrightwood avenue.....	211 75
13255	19	Ambrose.....	Wood.....	Hoyle avenue.....	574 75
13256	8	West Congress.....	Rockwell.....	Washtenaw avenue.....	242 00
13257	6	Dickson.....	North avenue.....	Wabansia avenue.....	181 50
13258	80	Central Park avenue.....	West Madison.....	West Harrison.....	877 50
13259	4	Clayton.....	Morgan.....	Fisk.....	128 50
13260	12	Albany avenue.....	West Jackson.....	West Harrison.....	368 00
13262	13	Oakley avenue.....	West Indiana.....	West Chicago avenue.....	368 25
13263	5	Sacramento avenue.....	West Lake.....	Fulton.....	151 25
13269	7	Coulter.....	Robey.....	Hoyle avenue.....	311 75
13443	13	Sulzer.....	Sheffield avenue.....	Halsted.....	898 25
13445	86	Wentworth avenue.....	Egan avenue.....	Sixty-third.....	2,515 50
13451	4	Addison avenue.....	Evanson avenue.....	Pine Grove avenue.....	138 50
13453	5	Ruble.....	West Eighteenth.....	Canalport avenue.....	151 25
13463	12 Con.	Carroll avenue.....	Kedzie avenue.....	Homan avenue.....	204 00
13464	6	Hull.....	Eugenie.....	Menominee.....	181 50
13465	33	Kedzie avenue.....	West Twelfth.....	Ogden avenue.....	965 25
13466	11	West Eighteenth place.....	May.....	Brown.....	832 75
13467	13	St. Louis avenue.....	West Kinzie.....	West Lake.....	390 25
13468	19	Wabansia avenue.....	Milwaukee avenue.....	Western avenue.....	574 75
13470	44	Hamlin avenue.....	Ogden avenue.....	West Twenty-ninth.....	594 00
13471	5	Grace.....	Ashland avenue.....	Paulina.....	151 25
13473	6	Wabash avenue.....	Forty-seventh.....	Forty-eighth.....	181 50
13473	5	Forty-fourth place.....	Vincennes avenue.....	St. Lawrence avenue.....	151 25
13474	18	Lawndale avenue.....	West Twenty-sixth.....	West Twenty-ninth.....	265 50
13477	4	Vincennes avenue.....	Forty-seventh.....	Forty-eighth.....	138 50
13478	12	Melrose.....	Halsted.....	Evanson avenue.....	368 00
13486	8	Fifty-ninth.....	Wabash avenue.....	Indiana avenue.....	242 00
13588	4	East Side Rokeby.....	Addison avenue.....	Nellie avenue.....	138 50
13544	4	Addison avenue.....	Pine Grove.....	Lake Michigan.....	128 50
13545	6	Cornelia.....	North Clark.....	C. & E. R'y.....	181 50

13546	6	Addison avenue.....	Halsted	181 50
13589	11	Portland avenue.....	Thirty-first.....	893 75
13590	7	Burlington.....	West Sixteenth.....	311 75
13591	6	West Seventeenth.....	Robey.....	181 50
13592	7	String.....	West Twenty-first.....	211 75
13593	7	Washburn avenue.....	Lincoln.....	211 75
13594	8	Edbrooke place.....	Powell avenue.....	96 75
13595	8	Clarinda.....	North Wood.....	242 00
13596	16	Washenaw avenue.....	Ogden avenue.....	484 00
13639	6	Nelson.....	Blucher.....	181 50
13640	18&20 Con	Kedzie avenue.....	Central Park boulevard.....	884 50
13641	11	Flournoy.....	Sacramento avenue.....	882 75
13680	4	Oakley avenue.....	Laughton.....	128 00
13681	7	Laughton.....	Oakley avenue.....	211 75
13682	7	Dudley.....	Harvey.....	211 75
13683	7	Maplewood avenue.....	Division.....	627 50
13684	29	Richmond.....	Chicago avenue.....	911 75
13685	15	Hoynes avenue.....	Armitage avenue.....	948 25
13686	25	Campbell avenue.....	North avenue.....	453 75
13687	8	West Superior.....	Washenaw avenue.....	781 25
13688	10	Sixty-third.....	Lexington avenue.....	243 00
13689	6	Meyer avenue.....	North avenue.....	802 50
13690	10	School.....	Lincoln avenue.....	181 50
13691	17	Cornelia.....	Halsted.....	302 50
13692	7	Gordon.....	Union.....	514 25
13693	8	Fifth-seventh.....	Sherman.....	311 75
13694	6	Jane.....	Leavitt.....	243 00
13695	4	Clara place.....	Powell avenue.....	181 50
13696	25	Fifty-ninth.....	Halsted.....	128 00
13754	4	Forty-second.....	Lake avenue.....	781 25
13756	4	Marianna.....	Racine avenue.....	128 00
13761	8	Sixty-fifth.....	Union avenue.....	243 00
13766	4	Sixty-fourth.....	Union avenue.....	128 00
13767	5	Sixty-sixth.....	Union avenue.....	128 00
13769	13	Fifty-fourth place.....	Morgan.....	898 25
13770	36	Ashland avenue.....	Fiftieth.....	1,083 00
13771	7	Wabansia avenue.....	Milwaukee avenue.....	311 75
13773	15	Basil avenue.....	North avenue.....	458 75
13774	3	Calumet avenue.....	Bloomingtondale road.....	95 75
13775	5	Clara place.....	Thirty-ninth.....	161 25
13819	11	Lull place.....	Powell avenue.....	332 75
13850	12	Blanche.....	Wood.....	898 00
			Noble.....	
			Ashland avenue.....	
			Garfield boulevard.....	
			Robey.....	
			Bloomingtondale road.....	
			Thirty-ninth.....	
			Perry avenue.....	
			Ellen.....	
			Ashland avenue.....	
			Wood.....	
			Powell avenue.....	
			Thirty-ninth.....	
			Bloomingtondale road.....	
			North avenue.....	
			Milwaukee avenue.....	
			Fiftieth.....	
			Morgan.....	
			Union avenue.....	
			Union avenue.....	
			Wallace.....	
			Lincoln avenue.....	
			Ellis avenue.....	
			School.....	
			Western avenue.....	
			Hoynes avenue.....	
			Wright.....	
			Lake Michigan.....	
			Wood.....	
			Eugenie.....	
			Drexel avenue.....	
			Rockwell.....	
			Armitage avenue.....	
			Asylum place.....	
			Division.....	
			North avenue.....	
			Asylum place.....	
			Harvey.....	
			Oakley avenue.....	
			Laughton.....	
			Sacramento avenue.....	
			Central Park boulevard.....	
			Blucher.....	
			Ogden avenue.....	
			North Wood.....	
			Powell avenue.....	
			Lincoln.....	
			West Twenty-first.....	
			Robey.....	
			West Sixteenth.....	
			Thirty-first.....	
			Halsted.....	
			Addison avenue.....	

DEPARTMENT OF PUBLIC WORKS.

STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS—CONTINUED.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
14022	13	Dickey.....	Homan avenue.....	Central Park avenue.....	\$ 393 25
14023	7	Fisk.....	West Sixteenth.....	West Eighteenth.....	211 75
14024	5	Clarinda.....	Ashland avenue.....	Holt.....	151 25
14025	7	West Twenty-first.....	Western avenue.....	C., C. & I. C. R'y.....	211 75
14026	4	Mantene court.....	Milwaukee avenue.....	Southern terminus.....	68 00
14027	6	Frankfort.....	Hoyle avenue.....	Robey.....	181 50
14028	3	West Ohio.....	Drake.....	St. Louis avenue.....	95 75
14029	13&2 Con.	Leavitt.....	Webster avenue.....	Armitage avenue.....	437 25
14030	16	Millard avenue.....	West Twenty-sixth.....	West Twenty-eighth.....	484 00
14031	4	Sawyer avenue.....	West Twenty-second.....	C., B. & Q. R. R.....	123 00
14032	3	Paulina.....	Otto.....	Roscoe.....	95 75
14033	20	Edgar.....	North avenue.....	Clybourn place.....	605 00
14034	14	West Erie.....	Leavitt.....	Western avenue.....	433 50
14035	12	Aldine.....	Evanston avenue.....	Lake Michigan.....	363 00
14036	12	High.....	Webster avenue.....	Fullerton avenue.....	243 00
14037	8	Lawndale avenue.....	Twenty-fifth.....	Twenty-sixth.....	243 00
14038	8&18 Con.	Lawndale avenue.....	Twenty-sixth.....	Thirty-first.....	548 00
14042	5&11 Con.	Utica.....	Twelfth.....	Fillmore.....	168 25
14043	8	Rosebud avenue.....	Wabansia avenue.....	Bloomington road.....	243 00
14044	106	Washington avenue.....	Forty-ninth.....	Fifty-ninth.....	8,532 00
14045	7	Heine.....	North avenue.....	Armitage avenue.....	790 65
14046	8	Washtenaw avenue.....	North avenue.....	Armitage avenue.....	819 00
14047	5	Rockwell.....	North avenue.....	Armitage avenue.....	731 25
14048	63	Vincennes avenue.....	State.....	Seventy-sixth.....	1,843 75
14224	14	Fairfield avenue.....	West Twelfth.....	Harvard.....	433 50
14243	32	West Twenty-second.....	Western avenue.....	California avenue.....	938 00
14249	8	Blucher.....	Wellington.....	Noble avenue.....	242 08
14397	6 & Con.	Sheridan avenue.....	Twelfth.....	Fillmore.....	198 50
14398	8	St. Paul avenue.....	Western avenue.....	Rosebud avenue.....	242 00
14399	14	South Normal roadway.....	Wright.....	C., R. I. & P. R'y.....	423 50
14400	15	West Polk.....	California avenue.....	Rockwell.....	433 75
14416	11	Forty-ninth.....	Woodlawn avenue.....	Lake avenue.....	333 75
14443	8	Columbia.....	Milwaukee avenue.....	Leavitt.....	242 00
2,028-49		Total.....	.....	.....	\$62,401 90

STATEMENT OF ASSESSMENTS FOR ERECTING BOULEVARD LAMP POSTS.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
12422	17	Lake Park avenue.....	Thirty-first.....	Thirty-third.....	\$ 288 00
12428	63	Lake avenue.....	Egan avenue.....	Fifty-first.....	882 00
12646	23	Ellis avenue.....	Douglas avenue.....	Egan avenue.....	310 50
12670	13	Champlain avenue.....	Forty-seventh.....	Forty-ninth.....	429 00
12719	19	California avenue.....	West Twelfth.....	Onden avenue.....	268 00
13130	4	Seventy-ninth.....	Dickey.....	Wright.....	184 50
13167	13	Colorado avenue.....	Central Park avenue.....	Douglas Park boulevard.....	439 00
13476	9	Sixty-fifth terrace.....	Ills. Cent. R. R.....	Stony Island avenue.....	297 00
13588	6	St. Lawrence avenue.....	Forty-fifth.....	Forty-sixth.....	181 50
13479	17	Wright.....	Sixty-ninth.....	Seventy-second.....	561 00
13753	5	Buena Park terrace.....	Evanston avenue.....	Hazel.....	165 00
13755	16	Indiana avenue.....	Fifty-eighth.....	Sixtieth.....	598 00
13757	21	Dickey.....	Sixty-ninth.....	Seventy-second.....	688 00
13758	4	Seventy-ninth.....	Dickey.....	Stewart avenue.....	134 00
13759	5	Union avenue.....	Sixty-sixth.....	Sixty-seventh.....	165 00
13760	3	Dickey.....	Winneconna.....	Seventy-ninth.....	104 00
13762	12	Seventy-sixth.....	Halsted.....	Wallace.....	896 00
13763	20	Sherman.....	Seventy-sixth.....	Seventy-ninth.....	660 00
13764	21	Emerald avenue.....	Seventy-sixth.....	Seventy-ninth.....	688 00
13765	18	Union.....	Seventy-sixth.....	Seventy-ninth.....	594 00
13768	15	Sixty-ninth.....	Halsted.....	Honore.....	495 00
13772	31	Sherman.....	Sixty-fourth.....	Sixty-ninth.....	992 00
14039	12	Sangamon.....	Seventy-seventh.....	Seventy-ninth.....	896 00
14040	13	Magnolia avenue.....	Bryn Mawr avenue.....	Belmont avenue.....	429 00
14041	13	Otto.....	Wood.....	Paulina.....	429 00
14049	5	Winneconna.....	Dickey.....	Stewart avenue.....	165 00
14418	29	Halsted.....	Sulzer.....	Byron.....	928 00
	427	Total.....			\$11,684 50

STATEMENT OF ASSESSMENTS FOR ERECTING GASOLINE LAMP POSTS.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
12410	16	Butler.....	Thirty-sixth.	Egan avenue.....	\$ 250 00
12456	7	Albany avenue.....	West Kinzie.....	Central Park boulevard.....	108 50
12457	7	Trumbull avenue.....	West Ohio.....	West Huron.....	108 50
12458	6	Harding avenue.....	West Huron.....	West Chicago avenue.....	96 00
12501	82	Armitage avenue.....	Kedzie avenue.....	Tripp.....	1,107 00
12667	14	Vermont avenue.....	Douglas avenue.....	Thirty-seventh.....	210 00
12669	14	Charlton.....	Thirty-third.....	Douglas avenue.....	210 00
12671	8	Thirty-fifth court.....	Halsted.....	Laurel.....	124 00
12689	28	Lawndale avenue.....	West Kinzie.....	West Huron.....	888 50
12970	29	Kimball avenue.....	West North avenue.....	Armitage avenue.....	406 00
13042	28	Hirsch.....	Leavitt.....	California avenue.....	899 00
13043	11	Werder.....	Rockwell.....	California avenue.....	165 00
13044	7	Iowa.....	California avenue.....	Washtenaw avenue.....	108 50
13045	9	Jefferson court.....	Western avenue.....	Perry avenue.....	189 50
13046	5	Owasco.....	California avenue.....	Washtenaw avenue.....	80 00
13047	30	Courtland.....	Kedzie avenue.....	Central Park avenue.....	420 00
13048	18	McGovern.....	Humboldt boulevard.....	Thomas.....	195 00
13049	27	Sheridan.....	West North avenue.....	Armitage avenue.....	384 75
13050	14	Nebraska.....	Armitage avenue.....	Bloomington road.....	210 00
13051	27	Mead.....	North avenue.....	Armitage avenue.....	384 75
13057	80	McLean avenue.....	Kimball avenue.....	Hamlin avenue.....	420 00
13058	28	Thompson.....	Leavitt.....	California avenue.....	888 50
13059	7	Emerald avenue.....	Forty-sixth.....	Forty-seventh.....	108 50
13064	6	Seminary avenue.....	Centre.....	Maud avenue.....	96 00
13066	26	Laurel.....	Fullerton avenue.....	Diversey avenue.....	870 50
13071	21	Thirty-third court.....	Ashland avenue.....	Archer avenue.....	304 50
13072	10	Yorktown.....	Thirty-fourth.....	Thirty-fifth court.....	150 00
13073	8	Thirty-fourth court.....	Wood.....	Lincoln.....	124 00
13074	60	Thirty-fourth.....	Ashland avenue.....	Western avenue.....	810 00
13075	29	Lincoln.....	Douglas avenue.....	Egan avenue.....	406 00
13076	17	Oakley avenue.....	Thirty-fourth.....	Archer avenue.....	255 00
13077	6	Leavitt.....	Thirty-fourth.....	Douglas avenue.....	96 00
13078	6	Hoyle avenue.....	Thirty-fourth.....	Douglas avenue.....	96 00
13081	82	Robey.....	Thirty-first.....	Douglas avenue.....	440 00
13125	4	Poc.....	Osgood.....	Maud avenue.....	64 00
13116	71	Armitage avenue.....	Tripp avenue.....	Robinson avenue.....	958 50

18299	61	Stewart avenue.....	Twenty-third place.....	Egan avenue.....	823 50
18437	7	Springfield avenue.....	West Huron.....	West Ohio.....	108 50
18469	18	Central Park avenue.....	West Twenty-sixth.....	West Twenty-ninth.....	265 00
18476	17	Millard avenue.....	West Twenty-sixth.....	West Twenty-ninth.....	265 00
18597	18	Argyle.....	North Clark.....	Evanston avenue.....	265 50
18442	24	Harding avenue.....	West Kinzie.....	West Huron.....	948 00
14437	95	West North.....	Kedzie avenue.....	Grand avenue.....	1,282 50
	973	Total.....			\$18,821 00

STATEMENT OF ASSESSMENTS FOR ERECTING DYOTT CHAMPION LAMPS.

No. of Warrant	No. of Lamps.	NAME OF STREET.	FROM	TO	AMOUNT.
12666	8	Bellevue place.....	Rush.....	Lake Shore drive.....	\$ 116 00
12668	29	Lafin.....	West Madison.....	West Harrison.....	406 00
18065	32	Central Park avenue.....	Ogden avenue.....	Douglas Park boulevard.....	482 00
	69	Total.....			\$954 00

STATEMENT OF ASSESSMENTS FOR STREET AND ALLEY OPENING AND WIDENING.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12700	Opening.....	Alley.....	Lots 1, 2, 3, Block 4.....	McIntosh sub., etc.,.....	\$ 1,184 58
12701	Opening.....	Sherman.....	Fifty-ninth.....	Cleveland.....	7,590 90
12702	Opening.....	Honore.....	Seventy-second.....	Seventy-fourth.....	10,715 30
12703	Opening.....	Forty-ninth.....	Cottage Grove avenue.....	Grand boulevard.....	24,418 50
12704	Opening.....	West Van Buren.....	Homan avenue.....	Central Park avenue.....	14,007 40
12705	Opening.....	Michigan terrace.....	Fortieth.....	Forty-first.....	17,940 00
12706	Opening.....	Alley.....	Blocks 7 and 8.....	School Section addition.....	7,464 02
12707	Opening.....	Tracy avenue.....	Fifty-seventh.....	Lots 26, 16, 88 and 14.....	2,531 50
12814	Widening.....	Sheffield avenue.....	Sulzer.....	North Fifty-ninth.....	14,974 72
12814	Opening.....	West Harrison.....	Albany avenue.....	Crawford avenue.....	28,491 63
12815	Opening.....	Claremont avenue.....	West Harrison.....	Block 16, Morris and others.....	25,477 00
12886	Opening.....	Alley.....	Western avenue.....	600 feet west.....	1,598 16

14421	Opening.....	Ninetieth.....	Manistee avenue.....	South Chicago avenue.....	8,819 62
14422	Widening.....	St. George's court.....	Milwaukee avenue.....	State.....	1,842 80
14423	Opening.....	Emery.....	Central Park avenue.....	Grand avenue.....	3,979 80
Total.....					\$428,117 76

STATEMENT OF ASSESSMENTS FOR LAYING STONE SIDEWALKS, ETC.

No. of Warr't	SIDE OF STREET AND IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12386	Both—Concrete.....	Columbia.....	Halsted.....	Lake Michigan.....	\$ 6,023 53
12396	Both—Stone.....	Woodlawn avenue.....	Lake.....	Fifty-first.....	14,700 02
12405	West—Stone.....	Yates avenue.....	Seventy-first.....	Seventy-fifth.....	5,863 68
12406	North—Stone.....	Seventy-fifth.....	Railroad avenue.....	Jeffrey avenue.....	8,358 30
12714	Both—Stone.....	St. Lawrence avenue.....	Forty-fourth.....	Forty-fifth.....	136 38
12717	Both—Stone.....	Forest avenue.....	Douglas avenue.....	Thirty-eighth.....	4,822 61
12796	Both—Concrete.....	Woodlawn avenue.....	Fifty-first.....	Fifty-fourth.....	4,606 35
12803	Both—Concrete.....	Goodwin.....	Belmont.....	Lawrence avenue.....	10,216 88
12810	Both—Cement.....	Fifty-first.....	Drexel boulevard.....	95 ft. east of east end of.....	13,903 50
13344	Both—Stone.....	Pine Grove avenue.....	Grace.....	Cornelia.....	11,205 85
13749	Both—Stone.....	Vincennes avenue.....	Forty-seventh.....	Fifty-first.....	11,110 22
13953	Both—Artificial Stone.....	Paxton avenue.....	Seventy-first.....	Seventy-third.....	877 68
14059	West—Stone.....	Oglesby avenue.....	Seventy-fourth.....	Seventy-fifth.....	1,500 00
14060	Both—Cement.....	Fifty-second.....	Woodlawn avenue.....	Drexel avenue.....	1,600 00
14064	Both—Cement.....	Jefferson avenue.....	Fiftieth.....	Fifty-fifth.....	1,420 00
14065	West—Cement.....	Woodlawn avenue.....	Fifty-third.....	Fifty-fourth.....	528 97
14066	Both—Stone.....	Luella avenue.....	Seventy-first.....	Seventy-second.....	1,625 00
14069	East—Stone.....	Jeffrey avenue.....	Seventy-first.....	Seventy-fifth.....	4,875 67
14140	Both—Stone.....	Clarkson Court.....	Washington boulevard.....	West Lake.....	1,660 00
14146	Both—Cement.....	Vernon avenue.....	Douglas avenue.....	Thirty-seventh.....	2,405 00
14271	Both—Stone.....	Van Buren.....	Michigan avenue.....	Market.....	13,063 00
14372	Both—Stone.....	South Clark.....	Van Buren.....	Polk.....	88,805 55
14377	Both—Stone.....	Forty-sixth.....	Grand boulevard.....	Drexel avenue.....	19,746 17
14308	Both—Stone.....	Hamlin avenue.....	C., B. & Q. R. R.....	West Twenty-sixth.....	8,710 00
14313	Both—Stone.....	Walnut.....	Kedzie avenue.....	Central Park avenue.....	5,500 00
14318	Both—Cement.....	Greenwood avenue.....	Lake avenue.....	Fifty-first.....	3,410 00
14402	North—Cement.....	Seventy-third.....	Seipp avenue.....	Jeffrey avenue.....	2,740 00
14409	Both—Stone.....	West Adams.....	Ashland avenue.....	Western avenue.....	17,337 02
14493	Both—Stone.....	Third avenue.....	Van Buren.....	Harrison.....	5,877 71

STATEMENT OF ASSESSMENTS FOR LAYING STONE SIDEWALKS, ETC.—CONTINUED.

No. of Warrant	SIDE OF STREET AND IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14434	Both—Cement.....	Lake avenue.....	Thirty-fifth.....	Oakwood avenue.....	\$ 1,639 50
14444	Both—Stone.....	Kinney avenue.....	Seventy-second.....	Seventy-third.....	1,726 00
14445	South—Stone.....	Seventy-fifth ..	Jeffrey avenue.....	Windsor Park and station of So. Chicago R. R.	9,022 00
		Total.....			\$228,916 59

RECAPITULATION, 1891.

Wooden Block Pavement.....	\$3,470,729 01
Sewers.....	1,951,228 54
Miscellaneous Street and Alley Improvements.....	1,397,421 77
Water Service Pipes.....	479,352 34
Plank Sidewalks	333,844 68
Drains.....	411,971 20
Opening and Widening.....	428,117 76
Stone Sidewalks.....	228,916 59
Gas Lamp Posts.....	62,401 90
Boulevard Lamp Posts.....	11,684 50
Gasoline Lamp Posts.....	13,821 00
Dyott Lamps.	954 00
Total.....	<u>\$8,790,448 20</u>

SUMMARY.

Total Assessments for Wooden Block Pavement :

North Division.....	\$ 426,098 95
South Division.....	1,163,192 87
West Division.....	1,881,437 19
	<u>\$3,470,729 01</u>

Total Assessments for Constructing Sewers :

North Division.....	\$ 124,008 31
South Division.....	521,288 63
West Division.....	1,305,931 60
	<u>1,951,228 54</u>

Total Assessments for Miscellaneous Street and Alley Improvements :

North Division.....	\$ 179,817 74
South Division.....	1,001,725 00
West Division.....	215,879 03
	<u>1,397,421 77</u>

Total Assessments for Laying Water Service Pipes :

North Division.....	\$ 45,106 75
South Division.....	305,000 29
West Division.....	129,245 30
	<u>479,352 34</u>

DEPARTMENT OF PUBLIC WORKS.

Total Assessments for Laying Plank Sidewalks :

North Division.....	\$ 53,149 09	
South Division.....	170,482 26	
West Division.....	110,213 83	
		<u>\$838,844 68</u>

Total Assessments for Street and Alley Opening
and Widening:

North Division.....	\$ 62,668 95	
South Division.....	203,804 36	
West Division.....	162,144 45	
		<u>428,117 76</u>

Total Assessments for Laying Stone Sidewalks :

North Division.....	\$ 17,229 38	
South Division.....	156,200 81	
West Division.....	55,486 90	
		<u>228,916 59</u>

Total Assessments for Erecting Gas Lamp Posts :

North Division.....	\$ 21,413 15	
South Division.....	10,919 50	
West Division.....	30,069 25	
		<u>62,401 90</u>

Total Assessments for Erecting Boulevard Lamp
Posts :

North Division.....	\$ 1,951 00	
South Division.....	9,038 50	
West Division.....	695 00	
		<u>11,684 50</u>

Total Assessments for Erecting Gasoline Lamp
Posts :

North Division.....	\$ 1,586 75	
South Division.....	4,407 50	
West Division.....	7,826 75	
		<u>13,821 00</u>

Total Assessments for Erecting Dyott Champion
Lamps :

North Division.....	\$ 116 00	
South Division.....	...	
West Division.....	838 00	
		<u>954 00</u>

Total Assessments for Laying Private Drains :

North Division.....	\$ 51,009 00	
South Division.....	175,307 45	
West Division.....	185,654 75	
		<u>411,971 20</u>
Total.....		<u>\$8,790,443 29</u>

The following list shows the total of assessments made in each year since 1861:

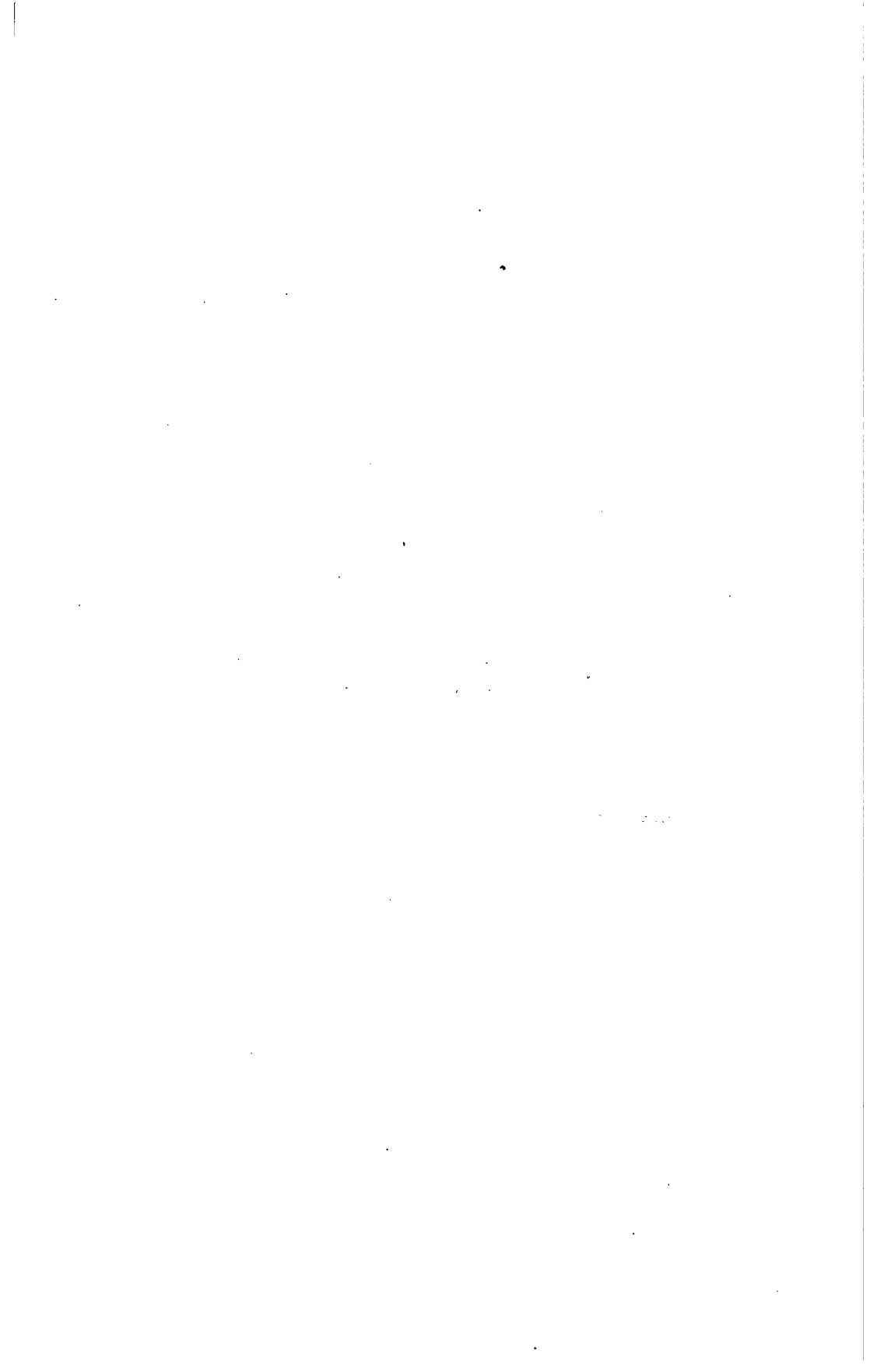
For the year ending April 1, 1862.....	\$ 42,635 49
For the year ending April 1, 1863.....	46,498 67
For the year ending April 1, 1864.....	389,169 31
For the year ending April 1, 1865.....	103,576 35
For the year ending April 1, 1866.....	302,574 56
For the year ending April 1, 1867.....	317,206 18
For the year ending April 1, 1868.....	1,354,436 48
For the year ending April 1, 1869.....	2,395,683 03
For the year ending April 1, 1870.....	2,836,852 48
For the year ending April 1, 1871.....	2,359,835 89
For the year ending April 1, 1872.....	62,222 25
For the year ending April 1, 1873.....	.....
For the year ending April 1, 1874.....	749,460 27
For the year ending April 1, 1875.....	723,254 42
For the nine months ending January 1, 1876.....	60,585 72
For the year ending January 1, 1877.....	1,516,081 07
For the year ending January 1, 1878.....	124,498 48
For the year ending January 1, 1879.....	284,900 45
For the year ending January 1, 1880.....	588,963 44
For the year ending January 1, 1881.....	980,895 50
For the year ending January 1, 1882.....	1,227,169 71
For the year ending January 1, 1883.....	1,395,872 98
For the year ending January 1, 1884.....	2,232,757 04
For the year ending January 1, 1885.....	2,857,905 28
For the year ending January 1, 1886.....	2,889,544 80
For the year ending January 1, 1887.....	3,307,567 99
For the year ending January 1, 1888.....	3,160,474 67
For the year ending January 1, 1889.....	3,655,956 78
For the year ending January 1, 1890.....	4,220,869 93
For the year ending January 1, 1891.....	6,987,155 48
For the year ending January 1, 1892.....	8,790,443 29
Total for thirty-one years.....	<u>\$56,484,542 99</u>

Respectfully submitted,

J. S. SHEAHAN,

Superintendent of Special Assessments.

Book-keeper's Statement



BOOK-KEEPER'S STATEMENT.

CHICAGO, January 1, 1892.

HON. J. FRANK ALDRICH,
Commissioner of Public Works.

DEAR SIR:—I herewith respectfully submit statement in detail of the Receipts and Expenditures of your Department for the year 1891.

WATER FUND.

Acc't Current Rents.

Amount collected during the year for current water rents assessed.....	\$1,554,661 24.
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Amount collected during the year for current water rents, meter measurements.....	717,068 05
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Acc't Water Service Cocks.

Amount received for taps and permits, also plumbers' licenses (\$469.00)	\$ 92,726 05
Amount received for sundries	7 75
	<hr/>
	92,733 80

Acc't Meters and Private Work.

Amount received for labor and material used in laying and repairing water supply pipes for elevators and general supply of water, also for changing location of hydrants and stop-cocks and repairing meters.....	60,099 99
Carried forward.....	<hr/>
	\$2,424,563 08

Brought forward.....	\$2,424,563 08
<i>Acc't North Pump. Works.</i>	
Amount received for scrap iron, brass borings, etc..	769 82
<i>Acc't West Pump. Works.</i>	
Amount received for scrap iron, empty barrels, etc...	285 84
<i>Acc't Central Pump. Works.</i>	
Amount received for scrap iron, grate bars, etc.....	40 40
<i>Acc't Sixty-eighth street Pump. Works.</i>	
Amount received for scrap iron, etc.....	253 00
<i>Acc't Lake View Water Works.</i>	
Amount received for empty barrels	11 40
<i>Acc't Water Pipe and Special Castings.</i>	
Amount received for scrap iron, pipe and castings...	2,170 25
<i>Acc't Hydrant Wrenches.</i>	
Amount received as deposit for loan of hydrant wrenches.....	756 82
<i>Acc't Water Works Shop.</i>	
Amount received for brass borings, lead dross and scrap iron	1,615 62
<i>Miscellaneous Receipts.</i>	
Rent of Rookery lot.....	35,000 04
Carried forward.....	<u>\$2,465,466.27</u>

Brought forward.....	\$2,465,466 27	
Interest on investment.....	100 00	
Bonds sold	1,435,500 00	
From private parties to lay water mains	182,263 80	
For rent of room, City Hall	210 00	
For sundries.....	310 15	
		<u>\$4,083,850 22</u>

EXPENDITURES.

Acc't Water Pipe Extension.

Paid for—

Labor.....	\$ 384,559 89
Teaming	43,080 63
Car fare.....	2,166 23
Earth filling	2,739 45
Valve wells and chambers..	8,748 98
Hydrant and stop cock chambers.....	23,121 95
Tools	866 81
Stationery	283 64
Lumber	8,410 08
Hardware	597 12
Labor, pipe and material...	92,774 25
Coal.....	381 33
Repairing scales.....	17 72
Horse feed	1,579 30
Damages.....	70 21
Oil	245 56
Packing and waste.....	772 63
Advertising.....	170 50
Horse shoeing	125 26
Repairing tools	241 50
Plumbing.....	853 13
Valves and Hydrant basins.	4,575 65
Excavating and blasting....	6,595 00
Accumulator.....	495 00
Testing machine	313 00
Pump and cylinder.....	{ 487 00 387 00
Map.....	120 00

Carried forward..... \$ 384,778 82

Brought forward.....	\$ 384,778 82	
Safe	75 00	
Machine work	209 52	
Paving	4,577 11	
Livery	107 23	
Rope and blocks	96 97	
Printing.....	95 75	
Castings and pipe	629,121 73	
Blacksmith	215 34	
Brooms and brushes.....	26 10	
Slag	267 30	
Window and doors.....	11 00	
Gaskets	1,016 88	
Lead	43,216 53	
Repairing and supplies.....	584 80	
Brick	10,246 05	
Lime and cement	5,237 97	
Sand	376 74	
Rings and covers.....	4,395 68	
Nails	238 25	
Rent.....	150 00	
Refund	78 88	
Cinders	152 25	
Ice	33 50	
Sundries	2,668 88	
	<hr/>	
Charged water fund.....		\$1,287,978 28

Acc't North Pump. Works.

Salaries of engineers, fire- men, and for labor.....	\$ 50,865 70	
Valves and fittings.....	539 83	
Brooms and brushes	49 49	
Coal.....	77,220 70	
Horse-shoeing	48 18	
Oil	801 42	
Electric lamps	449 84	
Packing	292 43	
Gas.....	487 80	
Soap and polish.....	194 92	
Tallow and grease	130 25	
Castings and brass fittings..	1,098 30	
	<hr/>	
Carried forward.....	\$ 132,178 86	\$1,287,978 28

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 132,178 86	\$1,287,978 28
Lumber	72 61	
Waste.....	343 96	
Rubber boots.....	11 16	
Emery paper.....	3 88	
Rope and hemp.....	122 93	
Lime	4 95	
Kettle	2 50	
Brick and clay.....	105 00	
Hardware	37 53	
Pump.....	75 00	
Paint	92 20	
Tug service.....	150 00	
Tools, handles and scoops..	13 05	
Gaskets	77 79	
Hydrant fittings.....	241 20	
Oil cups	5 40	
Sprinkling.....	417 85	
Repairing harness.....	3 50	
Lawn mower.....	6 84	
Pails, lead and glass	38 61	
Car fare.....	11 00	
Ice	52 50	
Plumbing	6 70	
Blankets	8 75	
Horse keep.....	324 57	
Cement	4 15	
Stationery	13 70	
Material and labor (shop)...	405 79	
Sundries	33 62	
Charged water fund.....		134,865 60

Acc't Water Works Repairs.

Paid for—

Labor.....	\$ 184,804 08	
Teaming	2,306 04	
Horse keep.....	40 00	
Car fare.....	20 00	
Machine work (shop).....	4,321 10	
Brick	4,188 00	
Carried forward.....	\$ 195,679 22	\$1,422,843 88

Brought forward.....	\$ 195,679 22	\$1,422,843 88
Sewer pipe.....	209 30	
Cement	1,732 10	
Land.....	137 50	
Pipe and castings.....	4,822 66	
Lead.....	1,350 62	
Sundries.....	29 35	
	<hr/>	
Charged water fund.....		203,960 75

*Acc't Meters and Private
Work.*

Paid for—

Meters, counters, covers and fittings	\$ 21,622 38	
Rebates on deposits.....	6,938 31	
Labor	36,196 44	
Car fare.....	12 39	
Stationery and printing....	88 44	
Teaming	29 00	
Horse-shoeing	91 15	
Lumber	687 07	
Express charges.....	1 90	
Castings.....	436 71	
Wire cloth.....	24 00	
Tools	47 00	
Sawdust.....	28 00	
Horse keep.....	1,657 83	
Machine work (shop).....	3,098 39	
Decrease of stock.....	6,066 28	
Nails	23 35	
Gasoline	30	
Repairing harness.....	27 00	
Repairing wagon.....	146 20	
Valves	226 25	
Paints and oils.....	16 66	
Glass	15 00	
Packing and waste.....	159 50	
Plumbing.....	26 54	
Brooms	2 92	
Hardware	68 05	
	<hr/>	
Carried forward.....	\$ 77,737 06	\$1,626,804 63

Brought forward.....	\$ 77,737 06	\$1,826,804 63
Sundries.....	29 77	
Stamp.....	1 25	
	<hr/>	
Charged water fund.....		77,768 08

Acc't West Pump. Works.

Paid for—

Salaries of engineers, fire-men, and for labor.....	\$ 43,377 70	
Car fare.....	19 33	
Coke	32 50	
Oil	1,580 69	
Packing	413 94	
Coal	53,769 94	
Hose	10 73	
Valve and fittings.....	555 28	
Soap and polish.....	102 60	
Waste.....	354 30	
Horse keep.....	5 00	
Tools	85 09	
Sundries	42 08	
Engine repairs and iron work	6,032 24	
Hardware	364 96	
Wheel-barrows.....	11 23	
Rubber and leather.....	16 45	
Brick, cement and clay....	620 06	
Machine work.....	150 05	
Grease and tallow.....	68 80	
Brooms and brushes.....	24 81	
Sand and gravel.....	126 51	
Castings	182 22	
Blacksmith	71 11	
Smoke consumer.....	1,500 00	
Lime.....	9 10	
Terra cotta.....	311 44	
Oatmeal	18 00	
Roofing.....	130 00	
Meals.....	69 10	
Testing coal.....	352 30	
Rope.....	92 94	
	<hr/>	
Carried forward.....	\$ 110,500 50	\$1,704,572 71

Brought forward.....	\$ 110,500 50	\$1,704,572 71
Lumber	1,247 97	
Glass.....	4 20	
Gaskets	893 59	
Advertising.....	5 00	
	<hr/>	
Charged water fund.....		112,651 26

Acc't Central Pump. Works.

Paid for—

Salaries of engineers, firemen and labor.....	\$28,871 97	
Car fare.....	40 92	
Grates and bars.....	1,028 55	
Coal.....	10,193 19	
Lumber ...	111 47	
Packing	92 95	
Hose and coupling	86 43	
Waste.....	350 04	
Sawdust and sand.....	40 50	
Valves and fittings.....	172 08	
Oil.....	769 56	
Soap, polish and boiler com- pound	157 39	
Gaskets	53 94	
Globes.....	8 00	
Cement	6 00	
Stone	15 25	
Gas fittings and pipe.....	253 24	
Gas	400 00	
Rubber	13 03	
Engine supplies	23 63	
Paint	65 49	
Rope	1 60	
Brooms and brushes	53 20	
Hardware	95 78	
Coke	12 00	
Engine, on account.....	36,753 50	
Real estate.....	1,559 91	
Iron work.....	318 72	
Brick	84 80	
Glass.....	33 17	
	<hr/>	
Carried forward.....	\$ 81,666 36	\$1,817,223 97

BOOK-KEEPER'S STATEMENT.

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Brought forward..... \$ 81,666 36 \$1,817,223 97

Tools	2 20
Machine work.....	50 88
Drugs.....	50 00
Blacksmith	54 15
Advertising.....	2 50
Ice	19 85
Blue prints	17 50
Lime	16 50
Sundries	96 30

Charged water fund.....		81,976 24
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*Acc't Sixty-eighth street**Pump. Works.*

Paid for—

Salaries of engineers, firemen and labor.....	\$39,197 45
Iron bars.....	30 41
Gaskets	48 90
Tubes.....	1 80
Brooms and brushes.....	60 00
Polish, soap and matches...	326 10
Coal	25,224 40
Waste.....	381 10
Sewer pipe.....	10 65
Oil	4,660 21
Packing ...	398 52
Stable supplies.....	28 90
Pump, on account	19,678 87
Testing pump.....	1,818 70
Lamps	256 25
Tug service.....	27 00
Hose	37 00
Boiler and engine repairs...	3,709 61
Horse feed	40 57
Grease.....	36 88
Buggy repairs.....	5 55
Sand	2 50
Brick and clay.....	18 25
Locating crib	153 00

Carried forward..... \$ 96,152 62 \$1,899,200 21

Brought forward.....	\$	96,152 62	\$1,899,200 21
Valves and fittings.....		120 50	
Advertising		25 10	
Repairing scales.....		15 00	
Teaming.....		13 50	
Labor.....		49 78	
Lime and cement.....		19 45	
Blue prints		3 00	
Stationery		15 50	
Car fare.....		10 00	
Hardware		62 82	
Rope		27 45	
Repairing house.....		242 11	
Specifications.....		10 80	
Ice		47 00	
Lumber.....		55 68	
Paint		18 97	
Castings		440 33	
Sundries.....		283 82	
Plumbing.....		380 00	
Charged water fund.....			97,993 43

*Acc't Lake View Pump.
Works:*

Paid for—

Salaries of engineers, firemen and others.....	\$	12,045 93	
Pails, soap and polish.....		68 53	
Coal.....		10,756 71	
Rubber boots.....		22 32	
Paint.....		15 55	
Oil.....		524 80	
Packing.....		78 15	
Brooms and Brushes.....		9 95	
Engine and boiler repairs...		380 95	
Valves and fittings....		344 44	
Engine supplies.....		188 99	
Shop material.....		240 38	
Inlet pipe.....		2,009 96	
Laying pipe.....		1,807 31	
Carried forward.....	\$	28,493 97	\$1,997,193 64

Brought forward..... \$ 28,493 97 \$1,997,193 64

Rubber.....	19 10	
Gaskets.....	49 56	
Waste.....	48 35	
Hose and couplings.....	61 90	
Diver	165 70	
Lamp and chimneys.....	3 75	
Tug service.....	423 00	
Castings.....	193 69	
Masonry	121 45	
Hardware.....	31 84	
Pump	200 00	
Desk	85 00	
Sundries.....	399 79	
Lead.....	689 22	
Pipe and special castings...	2,769 57	
<hr/>		
Charged water fund.....		33,755 89

*Acc't Washington Heights
Pump.*

Paid for—

Salaries of engineer and fire- man.....	\$ 1,573 93	
Coal.....	870 56	
Oil.....	13 44	
Valves	1 21	
Express charges.....	79	
Boiler, compound soap and polish.....	62 50	
Engine supplies.....	11 35	
Sand and brick.....	7 33	
Boiler work.....	128 65	
Packing.....	10 62	
Hardware	13 42	
Castings.....	2 89	
Sundries.....	7 25	
<hr/>		
Charged water fund.....		2,703 94
Carried forward.....		<hr/> \$2,033,653 47

Brought forward

\$2,033,653 47

*Acc't South Side Pump.
Works.*

Paid for—

Labor.	\$ 33,193 45	
Coal.	590 52	
Roofing.	19,955 00	
Floor.	3,231 00	
Building.	3,400 00	
Blue prints.	4 66	
Inspecting material.	228 13	
Engine and boilers (on acc't)	93,105 05	
Boiler work.	573 31	
Advertising.	42 75	
Masonry.	6,744 95	
Oak bars for windows.	45 00	
Nails.	31 64	
Engine supplies.	455 50	
Plumbing.	856 72	
Turn-table.	240 00	
Rails.	156 40	
Coal cars.	340 00	
Stone.	1,408 65	
Instrument.	7 35	
Typewriting.	1 20	
Castings.	6,006 07	
Valves.	9 27	
Rope.	15 65	
Pumping post.	80 00	
Packing.	51 46	
Lamps.	696 76	
Oil.	79 33	
Glazing and glass.	530 75	
Lumber.	1,200 59	
Hardware.	133 51	
Lightning rods.	209 75	
Sewer and catch-basin.	1,694 75	
Gas fittings.	1,756 29	
Iron beams.	721 07	
Laying pipe.	636 36	
Carried forward	\$ 178,432 89	\$2,033,653 47

Brought forward.....	\$ 178,432 89	\$2,033,653 47
Labor and material.....	805 93	
Cement floor.....	3,702 07	
Car fare.....	5 00	
Ladder.....	9 00	
Screens.....	182 60	
Tools.....	32 50	
Scale.....	697 53	
Bolts.....	69 00	
Brick.....	433 00	
Furniture.....	112 00	
Steam heating.....	1,785 00	
Brooms and brushes.....	22 36	
Waste.....	42 26	
Lime.....	102 50	
Coping.....	72 28	
Door frames.....	38 50	
Stationery.....	25 94	
Paint.....	77 92	
Sand.....	237 00	
Gas.....	164 80	
Sundries.....	76 93	
Charged water fund....		187,127 01

Acc't New Lake Tunnel.

Paid for—

Contractor.....	\$ 283,214 64	
Coal.....	106 00	
Labor, engineers, draughts- men, inspectors and rod- men.....	26,288 11	
Candles and toweling.....	16 83	
Oil and turpentine.....	13 85	
Meals and board.....	513 72	
Paint.....	5 36	
Pipe and fittings.....	107 27	
Stationery.....	204 27	
Sand pump.....	6 00	
Hardware.....	24 40	
Labor and supplies.....	14 00	
Carried forward.....	\$ 310,514 45	\$2,220,780 48

Brought forward.....	\$ 310,514 45	\$2,220,780 48
Safe	100 00	
Storage	20 00	
Rubber boots.....	3 89	
Damages.....	985 35	
Soap.....	88	
Blue prints.....	38 48	
Car fare.....	5 00	
Waste and packing.....	30 23	
Sundries	72 50	
Charged water fund.....		311,770 78

Acc't New Lake Tunnel Crib.

Paid for--		
Contractor.....	\$ 36,732 89	
Sundries	3 85	
Charged water fund.....		36,736 74

Acc't New Land Tunnel...

Paid for—		
Contractor.....	\$ 500 00	
Charged water fund.....		500 00

Acc't Lake View Water Tunnel.

Paid for—		
Labor	\$ 12,616 82	
Coal.....	167 85	
Gaskets	16 95	
Contractor	138,487 23	
Rope	1 10	
Blue prints	37 84	
Lumber	150 56	
Nails	7 13	
Steam fittings	22 25	
Railroad tickets.....	8 07	
Labor and material....	620 26	
Carried forward.....	\$ 152,136 06	\$2,569,788 00

Brought forward..... \$ 152,136 06 \$2,569,788 00

Use of pile driver	305 00
Use of tug	21 00
Stationery	19 50
Boat	50 00
Hardware	4 20
Paint	1 50
Valves	2 39
Sundries	35 78

Charged water fund.....

152,575 43

Acc't Water Service Cocks.

Paid for—

Labor	\$ 51,445 99
Car fare	438 57
Oil	3 50
Valve and fittings	529 35
Plumbing	7 00
Gauge	10 75
Printing and advertising	90 00
Drills	881 20
Tapes and chain	87 34
Stationery	90 75
Ferrules	7,725 65
Labor	155 35
Horse-keep (stable)	1,295 16
Gaskets	15 60
Service cocks	1,635 22
Feed yokes	36 00
Castings	69 00
Decrease of stock	13 27
Labor and material (shop) ..	311 68
Sundries	5 00

Charged water fund.....

64,846 38

Acc't Water Miss. Expense.

Paid for—

Sundry expenditures	\$ 5,304 34
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Charged water fund.....

5,304 34

Carried forward.....

\$2,792,514 15

Brought forward.....

\$2,792,514 15

Acc't Water Office Expense.

Paid for—

Car fare.....	\$	1,903 85	
Stationery.....		1,824 72	
Drawing material.....		76 85	
Keys.....		12 00	
Printing.....		1,056 90	
Matches and candles.....		42 90	
Tape-lines.....		66 00	
Postage.....		758 47	
Washing.....		16 40	
Express charges.....		27 85	
Gas.....		41 90	
Binding.....		232 35	
Typewriting machine.....		110 50	
Steam fixtures.....		185 64	
Harness.....		16 00	
Furniture.....		143 60	
Advertising.....		555 90	
Night watchman.....		226 66	
Tools.....		143 27	
Rent.....		1,680 70	
Horse keep.....		51 60	
Coal (Town of Lake).....		90 00	
Horse-shoeing.....		9 00	
Cleaning office.....		69 22	
Atlas.....		201 85	
Stamp and pad.....		57 85	
Wire railing.....		6 00	
Hardware.....		21 28	
Coin-holder.....		12 50	
Refund of permits.....		220 30	
Blue prints.....		1 96	
Office repairs (Town of Lake)		288 71	
Gaskets.....		9 00	
Directory.....		6 00	
Moving safe.....		20 00	
Window shades.....		23 00	
Calcinining.....		51 25	
Carried forward.....	\$	10,266 98	\$2,792,514 15

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$	10,266 98	\$2,792,514 15
Map (Town of Lake).....		50 00	
Sundries.....		1,321 69	
Charged water fund.....			11,638 67

Acc't Water Fund Proportion of Commissioner's Office Expense and Salaries.

Paid—

Salaries of Commissioner, secretary, book-keeper and others.....	\$	6,438 70
Car fare.....		239 15
Annual Report, on account.		1,000 00
Stationery and books.....		2,422 65
Stamp, twine and binding..		89 00
Five city directories.....		15 00
Printing and map.....		118 69
Sundries.....		1,436 78
<hr/>		
Charged water fund.....		

Acc't New North Shore Inlet Extension.

Paid for—

Contractor	\$	88,426 55
Labor		8,354 12
Lumber		2 30
Tug service.....		66 00
Printing and advertising....		40 90
Blue prints		4 40
Stationery and printing		72 52
Hardware		4 13
Labor and material (shop)..		6 33
Sundries		8 77
<hr/>		
Charged water fund.....		

Carried forward..... \$2,912,898 81

Brought forward..... \$2,912,898 81

Acc't Water Office Salaries.

Paid for—

Collecting water rents as-
sessed, inspectors, assess-
ors and draughtsman.... \$ 227,372 40

Charged water fund 227,372 40

Acc't Lake Tunnel Crib.

Paid for—

Crib-keeper's salary and labor	\$ 3,579 40
Hardware	67 12
Lumber	192 52
Packing, wicks and soap....	73 56
Steam fittings.....	32 13
Blankets and mattress	8 50
Shears	12 60
Oil and paints	99 42
Rubber boots.....	8 75
Meals and board	500 25
Tug service.....	2,359 67
Advertising.....	10 00
Roofing	159 31
Labor and material (shop)..	57 10
Brooms	1 75
Labor and material.....	205 28
Coal.....	401 09
Boat.....	125 00
Lime, rope and candles	10 65
Waste and cement.....	11 01
Valves and fittings.....	17 65
Nails	2 55
Sundries	185 06

Charged water fund 8,120 46

Acc't Ashland avenue Tunnel.

Paid—

Contractor	\$ 14,888 67
Inspection.....	845 03

Charged water fund..... 15,733 70

Carried forward..... \$3,164,125 37

Brought forward.....		\$3,164,125 37	
<i>Acc't Jefferson Street Tunnel.</i>			
Paid—			
Contractor	\$	15,271 37	
Inspection.....		680 55	
Advertising.....		11 00	
Hardware		5 25	
		<hr/>	
Charged water fund			15,968 17
<i>Acc't Sixty-eighth street Pumping Works Extension.</i>			
Paid for—			
Locating crib	\$	153 00	
Advertising.....		12 50	
Blue prints		3 89	
		<hr/>	
Charged water fund.....			169 39
<i>Other Expenditures.</i>			
Paid—			
Water loan interest.....	\$	326,297 05	
Repairs on city buildings,			
Michigan avenue.....		254 65	
Deposit for hydrant wrenches			
refunded		350 00	
Money advanced and re-			
funded		35,208 19	
Certificate of indebtedness..		350 00	
		<hr/>	
			362,459 89
		<hr/>	\$3,542,722 82

SEWER FUND.

RECEIPTS.

Amount received for drain permits	\$	94,679 35
Amount received for drain layers' license.....		1,429 75
Appropriated by City Coun- cil for cleaning sewers and catch-basins		105,000 00
		<hr/>
Carried forward.....	\$	201,109 10

Brought forward.....	\$ 201,109 10
Repairing sewers and catch-basins.....	20,000 00
For building wing sewers and catch-basins.....	70,000 00
Sewerage sinking fund.....	500 00
River improvement sinking fund.....	500 00
Sewerage office salaries....	29,000 00
Sewerage proportional salaries and office expense...	9,813 33
Amount advanced from private parties for construction sewers.....	16,195 27
Amount received from private parties for labor and material.....	2,251 03
For refunding money advanced by private parties.	10,951 50
Deficiency in collection of taxes appropriated by City Council.....	2,615 27
Received for special assessment inspection from Comptroller.....	47,366 70
Received from sundry parties	303 66
Received from Comptroller for catch-basins by special assessment.....	9,672 80
Total receipts.....	\$ 420,278 66

EXPENDITURES.

Acc't Sewers North Division.

Paid for—	
Labor.....	\$ 3,357 00
Horse keep.....	216 00
Repairing sleigh.....	12 00
Repairing	70 75
Cement	2 20
Carried forward.....	\$ 3,657 95

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$	3,657 95	
Sewer pipe.....		37 49	
Proportion office expense..		76 60	
Sewer teaming.....		220 50	
Catch-basins.....		2,390 70	
Sewers built by private parties.....		9,677 36	
Sundries		10 00	
Charged sewerage fund....	\$		16,070 60

Acc't Sewers South Division.

Paid for—

Labor	\$	8,975 50	
Horse keep.....		450 00	
Constructing sewers.....		1,471 00	
Sewer brick and cement....		252 65	
Car fare.....		20 00	
Mason work.....		32 50	
Labor and material.....		11 75	
Repairs		30 00	
Plumbing.....		10 00	
Lumber		142 80	
Setting junctions.....		80 00	
Sand.....		14 00	
Sewer teaming.....		909 00	
Sewer pipe.....		883 28	
Catch-basins.....		8,276 12	
Proportion of office expense		152 80	
Sewers built by private parties.....		3,197 75	
Sundries		70 00	
Charged sewerage fund....			24,979 15

Acc't Sewers, West Division.

Paid for—

Labor	\$	18,902 86	
Stubs		5 00	
Constructing sewers (con't).		8,918 10	
Carried forward.....	\$	27,825 96	\$ 41,049 75

Brought forward.....	\$ 27,825 96	\$ 41,049 75
Plumbing.....	93 22	
Stationery.....	14 75	
Rod extension.....	3 50	
Sewer brick.....	429 48	
Sewer sand.....	64 00	
Sewer cement.....	350 17	
Sewer pipe.....	2,584 97	
Sewer teaming.....	1,480 92	
Wooden covers used.....	96 00	
Iron covers used.....	15 00	
Proportion of office expense	229 20	
Catch-basins.....	11,806 38	
Sewers built by private parties	11,279 49	
Sundries.....	49 25	
	<hr/>	
Charged sewerage fund.....		56,322 29

Acc't House Drains.

Paid for—

Labor.....	\$ 59,290 77	
Stationery, books and print- ing.....	773 63	
Building sewer stubs.....	85 00	
Plumbing.....	109 51	
Paving.....	39 99	
Relaying drains.....	191 55	
Advertising.....	10 00	
Repairing pipe.....	32 22	
Tape lines.....	33 90	
Teaming.....	712 23	
Car fare.....	1,414 71	
Stamps.....	11 76	
Atlas.....	120 00	
Hardware.....	74 40	
Buggy.....	66 67	
Livery.....	17 63	
Pipe and cement.....	22 30	
Proportion of office expense.	1,209 30	
	<hr/>	
Carried forward.....	\$ 64,215 57	\$ 97,372 04

Brought forward.....	\$ 64,215 57	\$ 97,372 04
Depreciation of stock.....	106 35	
Sundries	909 25	
	<hr/>	
Charged sewerage fund.....		65,231 17

*Acc't Cleaning Sewers and
Catch-basins.*

Paid for—

Labor.....	\$ 98,166 77	
Repairing tools	76 21	
Coal and kindling	2,759 21	
Repairing sewers.....	1,806 00	
Soap and candles.....	107 30	
Polish.....	8 75	
Oil	101 48	
Valves and fittings.....	12 81	
Rent of steam pump.....	394 65	
Packing, waste and hemp...	69 30	
Pipe and nails	4 30	
Brick	10 00	
Brooms and brushes.....	23 29	
Medical attendance.....	59 85	
Lumber	33 92	
Rent.....	130 00	
Repairs and pumping.....	96 75	
Dumpings	181 40	
Iron work	182 82	
Grease.....	15 40	
Stationery.....	9 60	
Plumbing.....	8 47	
Boarding men	15 40	
Depreciation of stock.....	531 74	
Teaming	18,777 52	
Sundries	19 50	
Horse keep.....	18 00	
	<hr/>	
Charged sewerage fund		123,620 44

*Acc't Repairing Sewers and
Catch-basins.*

Paid for—

Labor	\$ 15,649 78	
Carried forward.....	\$ 15,649 78	\$ 286,223 65

Brought forward.....	\$ 15,649 78	\$ 286,223 65
Earth filling	212 45	
Repairing tools	360 90	
Medical attendance.....	92 90	
Repairing sewers.....	856 75	
Lumber	39 80	
Candles	30 00	
Teaming	3,870 85	
Plumbing	110 74	
Repairing wagon	8 00	
Dredging.....	1,026 15	
Iron-work	89 94	
Coal.....	12 00	
Use of tug.....	98 00	
Use of pump.....	375 25	
Labor and material.....	2,659 56	
Rent of yard.....	33 34	
Brick	1,063 57	
Sand and cement.....	659 05	
Pipe	1,471 07	
Wooden covers	1,090 35	
Iron covers.....	899 00	
Depreciation of stock.....	159 52	
Charged sewerage fund		30,868 97

Acc't Sewerage Office Salaries.

Paid for—

Salaries of employes	\$ 28,417 05	
Charged sewerage fund.....		28,417 05

Acc't Catch-basins.

Paid for—

Labor.....	\$ 16,553 12	
Repairing tools	131 15	
Coal and lumber.....	20 00	
Blasting.....	498 00	
Iron-work	7 90	
Brick	5,560 72	
Sand	234 00	
Carried forward.....	\$ 23,901 28	\$ 345,509 67

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 23,901 28	\$ 345,509 67
Cement	1,951 55	
Pipe	2,311 42	
Wooden covers.....	2,342 00	
Iron covers.....	1,250 00	
Teaming	2,041 42	
	<hr/>	
	\$ 32,901 28	
Deduct amount distributed to sewers, North, South and West Divisions.....	22,473 20	
	<hr/>	
Charged sewerage fund....		10,428 08

Acc't Intersections.

Paid for—

Labor	\$ 32,548 31	
Brick	9,803 15	
Sand.....	440 00	
Cement	4,997 12	
Pipe.....	972 72	
Wooden covers	4,115 76	
Iron covers.....	9,865 20	
Teaming	3,220 95	
Depreciation of stock	265 87	
	<hr/>	
Charged sewerage fund....		66,229 08

Acc't Sewerage Fund's Proportion of Commissioner's Office Expenses and Salaries.

Paid for—

One-third salary of Commissioner, secretary, book-keeper and others.....	\$ 6,648 81	
Car fare.....	200 83	
Livery.....	5 00	
Postage.....	3 00	
Annual report (on account).	1,000 00	
Printing.....	1,380 60	
	<hr/>	
Carried forward. ...	\$ 9,238 24	\$ 422,166 83

DEPARTMENT OF PUBLIC WORKS.

Brought forward.....	\$ 9,238 24	\$ 422,166 83
Stationery and binding....	624 30	
Sundries	226 29	
	<hr/>	
Charged sewerage fund.....		10,088 83

*Other Expenditures from
Sewerage Fund.*

Paid—

River improvement sinking fund	\$ 500 00
Sewerage sinking fund.....	500 00
Material on hand.....	11,391 35
Increase of stock.....	1,000 00
Sixty-ninth st. pump. works.	3,999 65
Sewer, private work.....	500 00
Salaries for inspectors (special assessment work).	57,435 47

Charge sewerage fund.....	75,326 47
Money advanced and re- funded	24,438 37

Total expenditures	<hr/>	<u>\$ 532,017 50</u>
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APPROPRIATION FUND.

RECEIPTS.

Acc't Improved Streets.

Amount appropriated by City Council.....	\$ 430,000 00
Paving and inspection.....	14,519 68
Health Department.....	4,909 75
Stone sold.....	35 00
Removing obstructions.....	34 00
Error in pay roll.....	23 31
Miscellaneous.....	309 23
Board of education.....	352 75
Fire Department.....	327 50
South side pound.....	75 09
	<hr/>
Carried forward.....	\$ 450,577 31

Brought forward.....	\$ 450,577 31	
Electric Light Department..	1,270 91	
Dolese & Shepard.....	59 50	
Repairing.....	2,927 74	
	<hr/>	\$ 454,844 46

Acc't Unimproved Streets.

Amount appropriated by Council	\$ 235,000 00	
Refund.....	3 00	
	<hr/>	235,003 00

Acc't Street Permits.

Received charges on permits to occupy streets.....	\$ 9,067 25	
Received charges on permits to open streets (repairing)	13,575 21	
Received for scale permits..	77 00	
Received for vault permits..	30 00	
	<hr/>	\$ 22,749 46
Deduct amount received by transfer from permit depositors' accounts.....	22,641 46	
	<hr/>	108 00

Acc't Permit Depositors.

Received deposits for permits to use or occupy streets for building purposes....	\$ 14,405 00	
Received deposits for permits to open streets for laying service pipes.....	42,802 00	
	<hr/>	57,207 00

Acc't Sidewalk General Repairs and Intersections.

Amount appropriated by Council.....	\$ 50,000 00	
Inspection.....	687 00	
	<hr/>	50,687 00
Carried forward.....		\$ 797,849 46

Brought forward..... \$ 797,849 46

Acc't Canal Street Bridge.

Appropriated by Council...	\$ 8,450 00	
Two lamps sold.....	25 00	
	<hr/>	8,475 00

Acc't House-Moving Permits.

Amount received for house-moving permits.....	\$ 4,331 00	
	<hr/>	4,331 00

Acc't Bridge-Viaduct Repairs.

Appropriated by Council...	\$ 125,500 00	
Scrap Iron.....	668 28	
Refund.	4 00	
Chicago & North-Western..	19 16	
Repairs on Lake st. bridge..	15 68	
Damage to Harrison street bridge.....	16 65	
J. S. Dunbar, damages.....	24 18	
J. H. Polly, damage to Van Buren street bridge.....	19 07	
Schooner "Waverly," damage to bridge.....	4 20	
Empty barrels.....	22 85	
Chicago & North-Western, toward maintaining North State street viaduct.....	400 00	
Wabash R'y, repairs to Twelfth street viaduct...	228 08	
	<hr/>	126,922 13

Acc't Public Buildings.

Appropriated by Council...	\$ 76,180 00	
Old carpet sold.....	45 00	
Public Library.....	739 00	
Castings.....	15 28	
	<hr/>	76,979 28

Acc't Chicago Harbor.

Appropriated by Council...	\$ 84,900 00	
Dredging.....	432 80	
	<hr/>	85,332 80

Carried forward.....		\$1,099,889 67
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Brought forward...		\$1,099,889 67
<i>Acc't Canal Pump Works.</i>		
Appropriated by Council...	\$ 67,000 00	
Received for empty barrels.	3 80	
		67,003 80
<i>Acc't Special Assessments.</i>		
Amount received from special assessment fund for cost of making and collect- ing special assessments, salaries and office ex- penses.....	\$ 284,683 57	
Amount received for use of steam roller.....	1,615 50	
From sewer fund, special warrants.....	1,689 50	
Inspection.....	154 00	
Voucher drawn in error....	90 00	
		288,232 57
<i>Miscellaneous appropriations.</i>		
For—		
Vessel dispatcher.....		2,400 00
Public benefits (improving intersections).....	\$ 425,000 00	
Receiver from Comptroller.	26,863 28	
		451,863 28
Fullerton avenue conduit (appropriated by Council)	\$ 15,000 00	
Empty barrels sold	138 47	
		15,138 47
Ogden ditch dam.....		1,000 00
Public parks (appropriated by Council)	\$ 8,000 00	
Miscellaneous.....	13 16	
		8,013 16
One-third salary and office expenses of Commissioner, secretary, book-keeper and others.....		9,813 33
City Engineer's office ex- penses		1,200 00
Carried forward.....		\$1,944,554 28

Brought forward.....		\$1,944,554 28	
Street Department office ex- penses		1,500 00	
Map Department office ex- penses.....		700 00	
Deficiency in collection of taxes		19,632 62	
Bureau of Light (empty bar- rels and broken posts)....		37 20	
<i>Acc't La Salle Street Tunnel.</i>			
Appropriated by Council...		5,500 00	
<i>Acc't Ninety-fifth Street Bridge.</i>			
Appropriated by Council...		13,400 00	
<i>Acc't Belmont Avenue Bridge.</i>			
Appropriated by Council...		6,800 00	
<i>Acc't Thirty-fifth St. Bridge.</i>			
Appropriated by Council...		23,700 00	
<i>Acc't Washington St. Tunnel.</i>			
Appropriated by Council...		5,500 00	
<i>Acc't California Ave. Bridge.</i>			
Appropriated by Council...		7,700 00	
<i>Acc't West Taylor Street Viaduct.</i>			
Pittsburg, Ft. Wayne & Chi- cago R'y.....	\$	8,445 80	
West Chicago Street R'y Co.		54,598 45	
Chicago, Burlington & Quincy R. R.....		12,456 66	
		<hr/>	75,500 91
<i>Acc't Ogden Avenue Viaduct.</i>			
Appropriated by Council...	\$	50,000 00	
Chicago & North-Western R'y		44,964 26	
Union Stock Yards		7,812 46	
		<hr/>	
Carried forward.....	\$	102,776 72	\$2,104,525 01

Brought forward.....	\$ 102,776 72	\$2,104,525 01
Pittsburg, Chicago & St. Louis R'y.....	6,928 00	
Miscellaneous... ..	15 00	
	<hr/>	109,719 72

Acc't Western Avenue Bridge.

Appropriated by Council...	\$ 33,350 00	
Amount received from sundry parties to cover cost of re- moving street obstructions made by special deposits.	5,900 00	
Public Library, received from Comptroller	392 75	
World's Columbian Exposi- tion, deposit to cover cost of enlargement of Sixty- eighth street pump. station	126,163 54	
Inspection account.....	310 00	
Rapid Transit Bridge Con- struction Co.....	1,500 00	
Palmer & Newberry	3,455 35	
Pittsburg, Ft. Wayne & Chi- cago R'y.....	845 53	
	<hr/>	171,917 17

Acc't Salaries.

Appropriated by Council...	\$ 53,140 00	
Board of Education.....	55 00	
	<hr/>	53,195 00

*Acc't Bridge Tenders' Sal-
aries.*

Appropriated by Council...	\$ 85,898 00	
Street Lamp Fund--Broken lamps, empty barrels, etc.	462 55	
	<hr/>	86,360 55
		<hr/> <hr/>
		\$2,525,717 45

EXPENDITURES.

Acc't Improved Streets.

Paid for—	
Labor.....	\$ 316,983 34
Car fare.....	724 00
Repair buggy.....	268 95
	<hr/>
Carried forward.....	\$ 317,976 29

Brought forward.....	\$ 317,976 29	
Scoops and shovels.....	79 26	
Coal.....	77 58	
Printing.....	51 75	
Rent.....	855 58	
Brushes and brooms.....	1,188 18	
Tools.....	126 21	
Furniture repairs.....	9 75	
Removing dirt.....	82 00	
Use of scow.....	2,050 00	
Use of tug.....	350 00	
Rope.....	1 49	
Paints and oils.....	59 29	
Hardware.....	757 90	
Paving.....	15,875 04	
Hose.....	6 00	
Culled blocks.....	8,371 08	
Tools	111 23	
Advertising.....	16 25	
Castings.....	12 85	
Lumber.....	25,344 00	
Repairing curb wall.....	593 78	
Street cleaning, by contract.	148,452 91	
Miscellaneous.....	840 36	
Gravel.....	3,484 22	
Nails.....	2,728 90	
Sprinkling.....	437 00	
Cement.....	131 28	
Macadam.....	10,392 60	
Crushed stone.....	16,597 31	
Cedar posts.....	42 50	
Dredging.....	350 00	
Slag.....	354 53	
Lanterns and globes.....	7 14	
Stationery.....	315 24	
Deposit refunded.....	223 25	
Annual report.....	2,274 70	
		\$ 560,627 45
<i>Acc't Unimproved Streets.</i>		
Paid for—		
Labor.....	\$ 249,466 38	
Lumber.....	10,021 48	
Carried forward.....	\$ 259,487 86	\$ 560,627 45

Brought forward.....	\$ 259,487 86	\$ 560,627 45
Car fare.....	62 17	
Hardware	267 75	
Repair harness and wagon..	8 70	
Cinders	1,227 82	
Tools	180 04	
Tools—repairs.....	128 30	
Coal.....	14 00	
Horse-feed	97 00	
Pick-handles.....	86 33	
Brick	119 30	
Rent.....	460 00	
Repairs	111 79	
Miscellaneous.....	258 20	
Brooms	18 00	
Nails	568 60	
Crushed stone.....	656 53	
Oil.....	17 91	
Cedar posts.....	28 92	
Slag	447 64	
Stationery.....	115 76	
Plumbing.....	8 75	
Gravel.....	30 40	
Macadam	3,410 89	
	<hr/>	267,812 66

*Acc't Sidewalk General Re-
pairs.*

Paid for—		
Labor.....	\$100,562 09	
Car fare.....	118 08	
Postage.....	36 21	
Repairs	845 45	
Advertising.....	43 75	
Lumber.....	7,039 99	
Miscellaneous.....	60	
Stationery	15 50	
Hardware.....	5 00	
	<hr/>	108,666 67
Carried forward.....		\$ 937,106 78

Brought forward..... \$ 937,106 78

Acc't Sidewalk Intersections.

Paid for—

Labor.....	\$ 35,713 15	
Crosswalks.....	2,892 56	
Lumber.....	6,828 23	
		<u>45,433 94</u>

Acc't Public Buildings, City Hall.

Paid for—

Furniture and carpets.	\$ 5,658 53	
Chandeliers	18 60	
Camphor.....	9 40	
Lamp fittings	39 66	
Oil, paint and grease.....	804 00	
Electric lamps, brushes and dynamo fittings	1,124 72	
Maps	21 00	
Labor	47,269 26	
Lumber	186 05	
Coal.....	20,751 96	
Soap, powder, etc.....	310 53	
Cement	37 50	
Boiler repairs.....	1,133 45	
Toweling.....	54 25	
Hardware	169 40	
Valves and valve repairs ...	40 85	
Ice	181 75	
Plumbing	448 82	
Engine supplies	242 81	
Glass	71 51	
Waste and packing	234 86	
Gas	4 40	
Elevator repairs.....	158 26	
Miscellaneous.....	81 61	
Rope	2 00	
Brooms and brushes	127 69	
Janitor's supplies.....	292 73	
Iron work and repairing....	2,377 21	
Carried forward.....	\$ 81,852 81	<u>\$ 982,540 72</u>

Brought forward.....	\$ 81,852 81	\$ 982,540 72
Cedar posts	9 00	
Decorating and cleaning walls.....	789 00	
Stationery.....	65 34	
Sash and doors	172 50	
Pails.....	28 80	
Awnings	145 00	
Fire brick	198 80	
One wire cage	125 00	
Steam fitting.....	154 97	
	<hr/>	83,541 22

Acc't Irving Park.

Paid for—

Arbor.....	\$ 140 00	
Plumbing.....	20 00	
Miscellaneous.....	2 25	
	<hr/>	162 25

Acc't Ellis Park.

Paid for—

Labor.....	\$ 1,027 60	
Paving.....	444 46	
Stone	7 00	
Sidewalk	110 52	
Lawn mower.....	9 25	
Hose	33 40	
Macadam	15 00	
Coal	24 92	
	<hr/>	1,672 15

*Acc't Douglas Monument
Square.*

Paid for—

Repairing monument	\$ 30 00	
Earth.....	44 00	
Coal.....	24 92	
Labor.....	752 74	
Roofing	7 00	
Hose	37 20	
	<hr/>	
Carried forward.....	\$ 895 86	\$1,067,916 34

Brought forward.....	\$	895 86	\$1,067,916 34
Seed.....		18 08	
Trees		240 00	
		<hr/>	1,153 94

Acc't Lake Park.

Paid for—			
Labor.....	\$	214 50	
		<hr/>	214 50

Acc't Bickerdike Square.

Paid for—			
Lawn mower.....	\$	6 00	
Seed		12 75	
Sodding.....		315 20	
Labor.....		415 50	
		<hr/>	749 45

Acc't Gross Park.

Paid for—			
Plumbing.....	\$	60 50	
		<hr/>	60 50

Acc't Jefferson Park.

Paid for—			
Lawn mower.....	\$	8 95	
Miscellaneous.....		2 24	
Supplies.....		3 00	
Cement		3 00	
Hose and coupling		46 00	
Labor.....		355 48	
		<hr/>	418 67

Acc't Aldine Square.

Paid for—			
Supplies.....	\$	20 25	
Rakes.....		8 42	
Hose		36 28	
Coal.....		36 92	
Labor.....		668 06	
		<hr/>	769 93

Carried forward..... \$1,071,288 33

BOOK-KEEPER'S STATEMENT.

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Brought forward.....

\$1,071,283 38

Washington Square.

Paid for—

Labor	\$	1,358 75	
Sprinkling		371 50	
Seed		8 25	
Trees		375 00	
Repairs		18 89	
Lawn mower		8 28	
		<hr/>	2,140 67

Shedds Park.

Paid for—

Supplies	\$	3 57	
Labor		205 50	
Wheelbarrow		65	
Hose		13 90	
Plants		20 64	
		<hr/>	244 26

Acc't Oak Park.

Paid for—

Labor	\$	3 00	
		<hr/>	3 00

Acc't Union Square.

Paid for—

Lumber	\$	122 59	
Paint		12 33	
Sodding		80 00	
Washers		5 25	
Labor		510 50	
Trees		150 00	
		<hr/>	880 67

Acc't Green Bay Park.

Paid for—

Labor	\$	6 00	
		<hr/>	6 00

Carried forward.....

\$1,074,557 98

Brought forward.....

\$1,074,557 93

Acc't Viaduct Repairs.

Paid for—

Miscellaneous.....	\$	324 54
Labor.....		3,189 20
Damages.....		460 00
Iron work.....		228 08
Lumber		71 22

4,273 04

Acc't Bridge Repairs.

Paid for—

Labor.....	\$	68,212 27
Car fare.....		143 64
Stationery.....		308 10
Coal.....		6,564 09
Oil, paint and grease.....		2,531 36
Earth filling		187 20
Damages		2,135 83
Bolts.....		290 22
Hardware.....		987 22
Tug service.....		25 00
Lumber.....		18,560 56
Lamps and tinware.....		213 84
Blacksmithing.....		55 38
Nails.....		567 74
Iron work.....		3,747 14
Advertising.....		32 00
Machine work.....		4,802 94
Miscellaneous.....		359 02
Supplies.....		258 53
Windows and doors.....		18 05
Glass.....		15 41
Waste, belting, rope and packing		365 58
Brooms and brushes.....		137 49
Tar and felt		105 00
Roofing.....		105 70
Stone and sand.....		110 72
Pile driving and dredging...		2,260 31

Carried forward..... \$ 113,100 34 \$1,078,830 97

Brought forward.....	\$ 113,100 34	\$1,078,830 97
Jacks.....	51 89	
Wheels.....	307 86	
Repairs.....	2,922 76	
Soap and candles.....	69 59	
Tools.....	268 83	
Building office.....	25 00	
Lead.....	31 81	
Plumbing.....	65 91	
Signal ball, and bell.....	11 00	
Gaskets.....	96 61	
Re-paving.....	1,884 54	
	<hr/>	118,836 14

Acc't Chicago Harbor.

Paid for—

Labor.....	\$ 20,959 88	
Car fare.....	69 14	
Transferred to unimproved streets.....	30,000 00	
Stationery.....	351 75	
Postage.....	2 54	
Lumber.....	28 00	
Tug service.....	104 47	
Repairs.....	38 35	
Stone and sand.....	28 75	
Printing.....	59 10	
Advertising.....	11 50	
Tools.....	68 00	
Repairing dock.....	609 85	
Hardware.....	19 41	
Miscellaneous.....	44 81	
Blue prints.....	7 67	
Moving bridge.....	10 00	
Dredging.....	48,410 11	
	<hr/>	100,823 33

Acc't Fullerton Avenue Conduit.

Paid for—

Labor.....	\$ 8,317 16	
Coal.....	7,595 63	
	<hr/>	
Carried forward.....	\$ 15,912 79	\$1,298,490 44

Brought forward.....	\$	15,912 79	\$1,298,490 44
Waste, grease and packing..		140 16	
Oil and paint.....		315 09	
Car fare.....		3 40	
Repairing scale.....		12 07	
Soap, etc.....		3 30	
Gaskets		2 95	
Gas.		251 80	
Lead.....		1 75	
Fire brick.....		13 25	
Miscellaneous.....		10 40	
Potatoes.....		44 30	
Repairs		56 91	
Iron work.....		1 09	
Hardware.....		10 85	
Valves		1 34	
Plumbing.		8 05	
Hose		14 98	
Brooms and brushes.....		6 55	
			16,811 03

Acc't Canal Pumping Works.

Paid for—			
Siphon burners.....	\$	200 00	
Miscellaneous.....		40 49	
Labor.....		27,708 30	
Car fare.....		25 71	
Coal.....		30,574 55	
Hardware.....		68 94	
Oil and paint.....		1,263 54	
Glass, etc.....		1 42	
Bolts.....		8 58	
Waste, packing and rope...		874 19	
Steam-fitting.....		20 37	
Advertising.....		31 75	
Boiler repairs.....		1,607 10	
Pipe fittings.....		15 81	
Tools.....		74 81	
Smoke-burner.....		2,333 25	
Soap, etc.....		43 06	
Repairing tools.....		11 65	
Carried forward. ...	\$	64,903 52	\$1,315,301 47

BOOK-KEEPER'S STATEMENT.

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Brought forward.... \$ 64,903 52 \$1,315,301 47

Blacksmithing	56 78
Valves and fittings	103 26
Iron work.....	1,149 95
Oil pump.....	5 85
Castings.....	20 62
Brooms and brushes	37 76
Ice	33 45
Hose	6 78
Roofing	534 23
Machine work.....	288 92
Oil cans.....	124 10
Cement and lime.....	50 10
New boiler.....	5,000 00
Sand, brick and clay.....	183 00
Supplies.....	22 05
Lumber.....	199 05
Gaskets	83 00

72,802 42

Acc't Madison Street Bridge.

Paid for—

Labor....	\$ 8,182 79
Drawing material.....	3 47
Lumber	17 28
Use of scow.....	1,846 40
Labor.....	711 32
Machine work.....	62 41
Car fare.....	5 00
Roofing	16 35
Blue print.....	8 46
Iron work.....	8,754 04
Pile-driving.....	1,141 30
Teaming	88 20
Printing.....	21 50
Tools	10 00
Blacksmithing.....	5 16
Stationery.....	10 00
Miscellaneous.....	1 00
Sub-structure.....	61,881 49
Super-structure.....	42,447 54
Advertising.....	14 75

Carried forward..... \$ 125,228 46 \$1,388,103 89

Brought forward.....	\$	317,976	29	
Scoops and shovels.....		79	26	
Coal.....		77	58	
Printing.....		51	75	
Rent.....		855	58	
Brushes and brooms.....		1,188	18	
Tools.....		126	21	
Furniture repairs.....		9	75	
Removing dirt.....		82	00	
Use of scow.....		2,050	00	
Use of tug.....		350	00	
Rope.....		1	49	
Paints and oils.....		59	29	
Hardware.....		757	90	
Paving.....		15,875	04	
Hose.....		6	00	
Culled blocks.....		8,371	08	
Tools.....		111	23	
Advertising.....		16	25	
Castings.....		12	85	
Lumber.....		25,344	00	
Repairing curb wall.....		593	78	
Street cleaning, by contract.		148,452	91	
Miscellaneous.....		840	36	
Gravel.....		3,484	22	
Nails.....		2,728	90	
Sprinkling.....		437	00	
Cement.....		131	28	
Macadam.....		10,392	60	
Crushed stone.....		16,597	31	
Cedar posts.....		42	50	
Dredging.....		350	00	
Slag.....		354	53	
Lanterns and globes.....		7	14	
Stationery.....		315	24	
Deposit refunded.....		223	25	
Annual report.....		2,274	70	
				\$ 560,627 45
<i>Acc't Unimproved Streets.</i>				
Paid for—				
Labor.....	\$	249,466	38	
Lumber.....		10,021	48	
Carried forward.....	\$	259,487	86	\$ 560,627 45

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 259,487 86	\$ 560,627 45
Car fare.....	62 17	
Hardware	267 75	
Repair harness and wagon..	8 70	
Cinders	1,227 82	
Tools	180 04	
Tools—repairs.....	128 30	
Coal.....	14 00	
Horse-feed	97 00	
Pick-handles.....	86 33	
Brick	119 30	
Rent.....	460 00	
Repairs	111 79	
Miscellaneous.....	258 20	
Brooms	18 00	
Nails	568 60	
Crushed stone.....	656 53	
Oil.....	17 91	
Cedar posts.....	28 92	
Slag	447 64	
Stationery.....	115 76	
Plumbing.....	8 75	
Gravel.....	30 40	
Macadam	3,410 89	
	<hr/>	267,812 66

Acc't Sidewalk General Repairs.

Paid for—		
Labor.....	\$100,562 09	
Car fare.....	118 08	
Postage.....	36 21	
Repairs	845 45	
Advertising.....	43 75	
Lumber.....	7,039 99	
Miscellaneous.....	60	
Stationery	15 50	
Hardware.....	5 00	
	<hr/>	108,666 67
Carried forward.....		\$ 937,106 78

Brought forward..... \$ 937,106 78

Acc't Sidewalk Intersections.

Paid for—

Labor.....	\$ 35,713 15	
Crosswalks.....	2,892 56	
Lumber.....	6,828 23	
	<hr/>	45,433 94

Acc't Public Buildings, City Hall.

Paid for—

Furniture and carpets.	\$ 5,658 53	
Chandeliers	18 60	
Camphor.....	9 40	
Lamp fittings	39 66	
Oil, paint and grease.....	804 00	
Electric lamps, brushes and dynamo fittings	1,124 72	
Maps	21 00	
Labor	47,269 26	
Lumber	186 05	
Coal.....	20,751 96	
Soap, powder, etc.....	310 53	
Cement	37 50	
Boiler repairs.....	1,133 45	
Toweling.....	54 25	
Hardware ...	169 40	
Valves and valve repairs ...	40 85	
Ice	181 75	
Plumbing	448 82	
Engine supplies	242 81	
Glass	71 51	
Waste and packing	234 86	
Gas	4 40	
Elevator repairs.....	158 26	
Miscellaneous.....	81 61	
Rope	2 00	
Brooms and brushes	127 69	
Janitor's supplies.....	292 73	
Iron work and repairing ...	2,377 21	
	<hr/>	
Carried forward.....	\$ 81,852 81	\$ 982,540 72

Brought forward..... \$ 81,852 81 \$ 982,540 72

Cedar posts	9 00	
Decorating and cleaning walls.....	789 00	
Stationery.....	65 34	
Sash and doors	172 50	
Pails.....	28 80	
Awnings	145 00	
Fire brick	198 80	
One wire cage	125 00	
Steam fitting.....	154 97	
		83,541 22

Acc't Irving Park.

Paid for—

Arbor.....	\$ 140 00	
Plumbing.....	20 00	
Miscellaneous.....	2 25	
		162 25

Acc't Ellis Park.

Paid for—

Labor.....	\$ 1,027 60	
Paving.....	444 46	
Stone	7 00	
Sidewalk	110 52	
Lawn mower.....	9 25	
Hose	33 40	
Macadam	15 00	
Coal	24 92	
		1,672 15

*Acc't Douglas Monument
Square.*

Paid for—

Repairing monument	\$ 30 00	
Earth.....	44 00	
Coal.....	24 92	
Labor.....	752 74	
Roofing	7 00	
Hose	37 20	
Carried forward.....	\$ 895 86	\$1,067,916 34

Brought forward.....	\$	895 86	\$1,067,916 34
Seed.....		18 08	
Trees		240 00	
		<hr/>	1,153 94

Acc't Lake Park.

Paid for—			
Labor.....	\$	214 50	
		<hr/>	214 50

Acc't Bickerdike Square.

Paid for—			
Lawn mower.....	\$	6 00	
Seed.....		12 75	
Sodding.....		315 20	
Labor.....		415 50	
		<hr/>	749 45

Acc't Gross Park.

Paid for—			
Plumbing.....	\$	60 50	
		<hr/>	60 50

Acc't Jefferson Park.

Paid for—			
Lawn mower.....	\$	8 95	
Miscellaneous.....		2 24	
Supplies.....		3 00	
Cement		3 00	
Hose and coupling		46 00	
Labor.....		355 48	
		<hr/>	418 67

Acc't Aldine Square.

Paid for—			
Supplies.....	\$	20 25	
Rakes.....		8 42	
Hose		36 28	
Coal.....		36 92	
Labor.....		668 06	
		<hr/>	769 93

Carried forward.....			<hr/>	\$1,071,283 33
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Brought forward.....

\$1,071,283 33

Washington Square.

Paid for—

Labor	\$	1,358 75	
Sprinkling		371 50	
Seed		8 25	
Trees		375 00	
Repairs		18 89	
Lawn mower		8 28	
		<hr/>	2,140 67

Shedds Park.

Paid for—

Supplies	\$	3 57	
Labor		205 50	
Wheelbarrow		65	
Hose		13 90	
Plants		20 64	
		<hr/>	244 26

Acc't Oak Park.

Paid for—

Labor	\$	3 00	
		<hr/>	3 00

Acc't Union Square.

Paid for—

Lumber	\$	122 59	
Paint		12 33	
Sodding		80 00	
Washers		5 25	
Labor		510 50	
Trees		150 00	
		<hr/>	880 67

Acc't Green Bay Park.

Paid for—

Labor	\$	6 00	
		<hr/>	6 00

Carried forward.....

\$1,074,557 93

Brought forward.....

\$1,074,557 93

Acc't Viaduct Repairs.

Paid for—

Miscellaneous.....	\$	324 54
Labor.....		3,189 20
Damages.....		460 00
Iron work.....		228 08
Lumber		71 22

4,273 04

Acc't Bridge Repairs.

Paid for—

Labor.....	\$	68,212 27
Car fare.....		143 64
Stationery.....		308 10
Coal.....		6,564 09
Oil, paint and grease.....		2,531 36
Earth filling		187 20
Damages		2,135 83
Bolts.....		290 22
Hardware.....		987 22
Tug service.....		25 00
Lumber.....		18,560 56
Lamps and tinware.....		213 84
Blacksmithing.....		55 38
Nails.....		567 74
Iron work.....		3,747 14
Advertising.....		32 00
Machine work.....		4,802 94
Miscellaneous.....		359 02
Supplies.....		258 53
Windows and doors.....		18 05
Glass.....		15 41
Waste, belting, rope and packing		365 58
Brooms and brushes.....		137 49
Tar and felt		105 00
Roofing.....		105 70
Stone and sand.....		110 72
Pile driving and dredging...		2,260 31

Carried forward..... \$ 113,100 34 \$1,078,830 97

Brought forward.....	\$ 118,100 34	\$1,078,830 97
Jacks.....	51 89	
Wheels.....	307 86	
Repairs.....	2,922 76	
Soap and candles.....	69 59	
Tools.....	268 83	
Building office.....	25 00	
Lead.....	31 81	
Plumbing.....	65 91	
Signal ball, and bell.....	11 00	
Gaskets.....	96 61	
Re-paving.....	1,884 54	
	<hr/>	118,886 14

Acc't Chicago Harbor.

Paid for—		
Labor.....	\$ 20,959 88	
Car fare.....	69 14	
Transferred to unimproved streets.....	30,000 00	
Stationery.....	351 75	
Postage.....	2 54	
Lumber.....	28 00	
Tug service.....	104 47	
Repairs.....	38 35	
Stone and sand.....	28 75	
Printing.....	59 10	
Advertising.....	11 50	
Tools.....	68 00	
Repairing dock.....	609 85	
Hardware.....	19 41	
Miscellaneous.....	44 81	
Blue prints.....	7 67	
Moving bridge.....	10 00	
Dredging.....	48,410 11	
	<hr/>	100,823 33

Acc't Fullerton Avenue Conduit.

Paid for—		
Labor.....	\$ 8,317 16	
Coal.....	7,595 63	
	<hr/>	
Carried forward.....	\$ 15,912 79	\$1,298,490 44

Brought forward.....	\$	15,912 79	\$1,298,490 44
Waste, grease and packing..		140 16	
Oil and paint.....		315 09	
Car fare.....		3 40	
Repairing scale.....		12 07	
Soap, etc.....		3 30	
Gaskets		2 95	
Gas.....		251 80	
Lead.....		1 75	
Fire brick.....		13 25	
Miscellaneous.....		10 40	
Potatoes.....		44 30	
Repairs		56 91	
Iron work.....		1 09	
Hardware.....		10 85	
Valves		1 34	
Plumbing.....		8 05	
Hose		14 98	
Brooms and brushes.....		6 55	
		<hr/>	16,811 03

Acc't Canal Pumping Works.

Paid for—

Siphon burners.....	\$	200 00	
Miscellaneous.....		40 49	
Labor.....		27,708 30	
Car fare.....		25 71	
Coal.....		30,574 55	
Hardware.....		68 94	
Oil and paint.....		1,263 54	
Glass, etc.....		1 42	
Bolts.....		8 58	
Waste, packing and rope...		874 19	
Steam-fitting.....		20 37	
Advertising.....		31 75	
Boiler repairs.....		1,607 10	
Pipe fittings.....		15 81	
Tools.....		74 81	
Smoke-burner.....		2,333 25	
Soap, etc.....		43 06	
Repairing tools.....		11 65	
		<hr/>	<hr/>
Carried forward. ...	\$	64,903 52	\$1,315,301 47

BOOK-KEEPER'S STATEMENT.

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Brought forward....	\$	64,903 52	\$1,315,301 47
Blacksmithing		56 78	
Valves and fittings		103 26	
Iron work		1,149 95	
Oil pump		5 85	
Castings.		20 62	
Brooms and brushes		37 76	
Ice		33 45	
Hose		6 78	
Roofing		534 23	
Machine work		288 92	
Oil cans		124 10	
Cement and lime		50 10	
New boiler		5,000 00	
Sand, brick and clay		183 00	
Supplies		22 05	
Lumber		199 05	
Gaskets		88 00	
			72,802 42

Acc't Madison Street Bridge.

Paid for—

Labor....	\$	8,182 79	
Drawing material		3 47	
Lumber		17 28	
Use of scow		1,846 40	
Labor		711 32	
Machine work		62 41	
Car fare		5 00	
Roofing		16 35	
Blue print		8 46	
Iron work		8,754 04	
Pile-driving		1,141 30	
Teaming		88 20	
Printing		21 50	
Tools		10 00	
Blacksmithing		5 16	
Stationery		10 00	
Miscellaneous		1 00	
Sub-structure		61,881 49	
Super-structure		42,447 54	
Advertising		14 75	
Carried forward	\$	125,228 46	\$1,388,103 89

Brought forward.....	\$ 125,228 46	\$1,388,103 89
Paving.....	859 13	
Railing.....	50 00	
Granite.....	402 00	
Paint.....	2 31	
Excavating.....	290 37	
	<hr/>	126,832 27

Acc't Western Avenue Bridge.

Paid for—		
Sub-structure.....	\$ 26,208 10	
Labor.....	1,132 53	
Super-structure.....	3,530 00	
Lumber.....	384 00	
Stone.....	370 53	
Hardware.....	40	
Printing.....	30 74	
	<hr/>	31,656 30

Acc't Thirty-fifth Street Bridge.

Paid for—		
Labor.....	\$ 2,064 73	
Blue print.....	14 76	
Sub-structure.....	9,041 52	
Advertising.....	8 60	
Super-structure.....	10,045 00	
Stone.....	883 99	
Re-paving.....	303 50	
	<hr/>	22,362 10

Acc't Ogden Ditch Dam.

Paid for—		
Labor.....	\$ 2,417 19	
Filling and repairing.....	359 00	
Lumber.....	496 98	
Hardware.....	90 25	
Miscellaneous.....	3 00	
Cement.....	43 50	
Stone.....	14 18	
	<hr/>	3,424 10
Carried forward.....		\$1,572,378 66

Brought forward.....

\$1,572,378 66

Acc't Vessel Dispatcher.

Paid for—

Salary..... \$ 2,041 94

2,041 94

Acc't City Engineer's Office Expense.

Paid for—

Car fare..... \$ 798 25

Postage..... 22 63

Repairs..... 3 00

Horse keep and shoeing.... 94 50

Labor..... 43 46

Drawing material..... 92 75

Office fixtures..... 96 20

Hardware..... 6 75

Blue print..... 64 67

Printing..... 43 50

Map..... 130 00

Express charges..... 9 65

Water Cooler..... 6 30

Miscellaneous..... 228 26

Stationery..... 540 74

2,180 66

Acc't Map Office Expense.

Paid for—

Stationery..... \$ 364 35

Labor..... 26 00

Postage..... 6 35

Drawing material..... 235 25

Directory..... 6 00

Miscellaneous..... 1 04

638 99

Acc't Appropriation of Commissioner's Office Expense.

Paid for—

Stationery..... \$ 672 89

Printing..... 122 14

Binding..... 27 00

Carried forward..... \$ 822 03 \$1,577,240 25

Brought forward.....	\$	822 03	\$1,577,240 25
Car fare.....		493 37	
Labor.....		226 43	
Account of Annual Report...		1,307 00	
Postage.....		75 17	
Express charges.....		40	
Miscellaneous.....		185 42	
Horse keep.....		36 00	
		<hr/>	3,145 82

Acc't Canal Street Bridge.

Paid for—

Super-structure.....	\$	14,188 11	
Labor.....		1,658 42	
Sub-structure.....		924 81	
Teaming.....		10 00	
Lumber.....		199 71	
Earth filling.....		391 20	
Machine work.....		59 07	
		<hr/>	17,431 32

Acc't Washington Street Bridge.

Paid for—

Turn-table rack.....	\$	350 00	
Machine work.....		55 11	
Plumbing.....		177 99	
Pile driving.....		282 20	
Labor.....		1,651 08	
Super-structure.....		19,184 54	
Re-paving.....		52 60	
Blue print.....		2 88	
		<hr/>	21,756 40

Acc't Morgue.

Paid contractor.....	\$	10,000 00	
		<hr/>	10,000 00

Acc't Taylor Street Bridge.

Paid for—

Labor.....	\$	3,826 14	
Repairs.....		77 60	
		<hr/>	
Carried forward.....	\$	3,903 74	\$1,629,573 79

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$	3,903 74	\$1,629,573 79
Sub-structure.....		20,463 12	
Machine work.....		1,464 29	
Miscellaneous.....		10 80	
Pile driving.....		212 20	
Printing.....		14 50	
Earth filling.....		212 45	
Blue print.....		68 87	
Castings.....		115 35	
Lumber.....		929 19	
Hardware.....		29 15	
Lead.....		4 37	
		<hr/>	27,428 03

Acc't Weed Street Bridge.

Paid for—

Labor.....	\$	302 75	
Paid contractor.....		8,296 00	
Roofing.....		10 00	
		<hr/>	8,608 75

Acc't Ninety-fifth Street Bridge.

Paid for—

Labor.....	\$	1,118 55	
Sub-structure.....		11,564 84	
Super-structure.....		13,200 00	
Earth filling.....		993 20	
Building sidewalk... ..		60 00	
Blue print.....		1 50	
Iron work.....		162 11	
Stone		1,918 90	
Machine work.....		74 85	
		<hr/>	29,093 95

Street Department Office Expense.

Paid for—

Stationery.....	\$	209 00	
Car fare.....		236 05	
Printing.....		257 35	
		<hr/>	
Carried forward.....	\$	702 40	\$1,694,704 52

DEPARTMENT OF PUBLIC WORKS.

Brought forward.....	\$	702 40	\$1,694,704 52
Labor.....		200 00	
Miscellaneous.....		57 23	
Postage.....		48 51	
Advertising.....		3 00	
			1,011 14

Acc't Salaries.

Paid for—

Employees Street Department.....	\$	20,931 85	
Employees City Engineer's Department.....		15,363 42	
Employees Map Department.....		15,120 48	
Miscellaneous.....		2,036 63	
			53,452 38
One-third salary Commissioner, secretary, book-keeper and others.....			6,279 15
Bridge tenders' salary.....			88,318 12

Acc't Street Permits.

Paid for—

Labor.....	\$	10,354 77	
Car fare.....		194 60	
Paving.....		522 69	
Rebates.....		45 00	
Printing.....		38 35	
			11,155 31

Acc't House Moving Permits.

Paid for—

Labor ...	\$	2,251 54	
Printing.....		58 50	
Stationery		12 50	
Rebates.....		50 00	
			2,372 54

Acc't Permit Deposits.

Rebates to depositors.....	\$	29,614 57	
			29,614 57
Carried forward.....			\$2,886,907 73

Brought forward.....

\$2,886,907 73

*Acc't Public Benefits.*City proportion of improv-
ing street intersections...

\$ 454,308 89

454,308 89

Acc't Belmont Avenue Bridge.

Paid for--

Labor..... \$ 374 05

Lumber 4 21

Advertising..... 31 75

Stationery..... 2 60

412 61

Acc't Special Assessments.

Paid for—

Coal..... \$ 515 37

Furniture 35 00

Advertising..... 14,261 55

Labor 120,168 72

Stationery..... 2,370 18

Miscellaneous..... 1,654 74

Making assessments..... 9,220 00

Experts' services..... 11,385 00

Car fare..... 917 11

Legal expenses..... 4,907 00

Supply 51 67

Waste, paint and oil..... 57 82

Map 15 00

Collecting assessments..... 54,626 75

Postage 13 56

Repairing steam roller..... 932 70

Postal cards 169 25

Filing permits..... 192 00

Horse and buggy 149 00

Stenographers' services 1,555 50

Sheriff fees 355 40

Clerk of County Court copy-
ing rolls..... 9,076 00Commissioners making as-
sessments..... 49,439 89

Directory 6 00

282,075 21

Carried forward.....

\$3,623,704 44

Brought forward.....

\$3,623,704 44

Acc't Ogden Avenue Viaduct.

Paid for—

Designing and drawing.....	\$	1,600 00
Super-structure		51,172 38
Hardware		5 55
Labor		4,902 74
Blue print.....		21 61
Miscellaneous.....		5 00
Printing and stationery.....		45 75
Damages.....		300 00
Car fare.....		8 60
Advertising.....		22 75
Sub-structure		65,513 85

123,598 23
*Acc't California Avenue**Bridge.*

Paid for—

Labor	\$	836 76
Specifications.....		7 20
Sub-structure		4,516 30
Advertising.....		22 50
Hardware		1 10

5,383 86
*Acc't West Taylor Street**Viaduct.*

Paid for—

Expert's services	\$	400 00
Advertising.....		39 25
Sub-structure		40,425 26
Damages.....		4,301 00
Labor.....		3,364 90
Super-structure		41,528 69
Labor		248 41
Blue print.....		3 71
Miscellaneous.....		7 62

90,318 84

Carried forward....

\$2,843,005 37

Brought forward.....		\$2,843,005 37	
<i>Acc't North Avenue Viaduct.</i>			
Estimate cost of raising old grade to new grade of approach.....	\$	399 00	
			399 00
<i>Acc't West Division Street Viaduct.</i>			
Estimate cost of raising old grade to new grade of approach.....	\$	301 00	
			301 00
<i>Special Deposits.</i>			
Amount refunded to sundry parties to cover cost of removing street obstruc- tions, made by special de- posit.....	\$	3,862 50	
			3,862 50
<i>Acc't Public Library.</i>			
For elevator service from July to December	\$	392 75	
			392 75
<i>Acc't Board of Education.</i>			
For elevator service, from September to December	\$	2 50	
			2 50
<i>Acc't World's Columbian Ex- position, for the Enlarge- ment of Sixty-eighth Street Pumping Station.</i>			
Paid for—			
Labor.....	\$	4,794 87	
Tunnel work....		26,671 79	
Moving house.....		200 00	
Blue print.....		151 59	
Constructing sewer.....		2,809 04	
Carried forward.....	\$	34,627 29	\$2,847,963 12

DEPARTMENT OF PUBLIC WORKS.

Brought forward.....	\$	34,627 29	\$2,847,963 12
Advertising.....		52 75	
New engine.....		70,500 00	
Mason work		110 00	
Foundations.....		6,994 80	
Stationery.....		32 35	
Iron work.....		29 30	
		<hr/>	112,346 49

Acc't Bureau of Light.

Paid for—

Car fare.....	\$	12 94	
Labor.....		3,485 26	
		<hr/>	3,498 20

MISCELLANEOUS EXPENDITURES.

Mutual Gas and Fuel Com- pany (refund).....	\$	1,000 00	
New York, Chicago & St. Louis Railway.....		255 00	
Madison & Northern Rail- way.....		188 22	
Rapid Transit Bridge & Con- struction Company.....		1,199 99	
Palmer & Newberry.....		3,184 77	
Pittsburg, Ft. Wayne & Chi- cago Railway (for side- walk)		845 52	
Simons & Gordon (refund).		46 67	
Inspection account.....		1,255 00	
LaSalle street tunnel inspec- tion		32 13	
Washington street tunnel in- spection.....		29 12	
Eighteenth street viaduct (expert's services).....		100 00	
Halsted street viaduct (ex- pert's services)		120 00	
		<hr/>	8,256 42
		<hr/>	<u>\$2,972,064 23</u>

TRIAL BALANCE.

LEDGER, DEPARTMENT PUBLIC WORKS, CHICAGO,
DECEMBER 31, 1891.

	<i>Dr.</i>	<i>Cr.</i>
Water fund.....	\$ 225,548 58	
Water works.....	19,061,268 12	
Water works, income.....		\$ 27,500,511 37
Water fund, general taxes.....		2,713,878 53
Annexed territory.....		197,525 48
Water loan bonds, 6 per cent.....		132,000 00
Water loan bonds, 7 per cent.....		2,847,000 00
Water loan bonds, 4 per cent.....		309,500 00
Water loan bonds, $3\frac{4}{100}$ per cent....		332,000 00
Water loan bonds, $3\frac{1}{2}$ per cent.....		333,500 00
Water loan bonds, canceled.....		875,000 00
Water fund, investment.....		1,000,000 00
Water loan, interest.....	7,339,056 39	
Hyde Park bonds, 5 per cent.....		50,000 00
Hyde Park bonds, 7 per cent.....		384,000 00
Town of Lake bonds, 5 per cent.....		164,900 00
Town of Lake bonds, 7 per cent.....		222,000 00
Water works expense and repairs.....	10,745,133 16	
Lake View loan bonds, 4 per cent.....		50,000 00
Lake View loan bonds, 5 per cent. ...		23,000 00
Lake View loan bonds, 7 per cent.....		75,000 00
American Exchange National Bank....	116,420 27	
J. Hardacre.....	100 00	
J. W. Lyons, cashier.....	1,691 88	
Meter Department, stock account.....	7,699 02	
Water works, shop account.....	6,369 33	
Tapping Department, stock account....	4,865 99	
Michigan avenue property.....	980 03	
Advances		297,520 57
Hydrant wrenches.....		1,796 82
Sewer fund.....	38,411 59	
Carried forward.....	\$ 37,547,544 36	\$ 37,509,132 77

Brought forward.....	\$ 37,547,544 86	\$ 37,509,132 77
Annexed territory.....		2,614,224 75
Sewers constructed by Special Assessment Department.....		2,059,673 34
Sewer surplus account.....		5,500 00
Sewers, North Division.....	2,321,050 31	
Sewers, South Division.....	4,607,186 58	
Sewers, West Division.....	5,570,257 50	
Sewer pipe.....	3,463 85	
Sewer brick.....	104 86	
Wooden covers.....	7,183 39	
Iron covers.....	491 00	
Cement.....	63 25	
Sand.....	85 00	
Sewerage, private work.....		573 61
Sewerage loan bonds, 4 per cent.....		845,000 00
Sewerage loan bonds, 7 per cent.....		1,288,000 00
Sewerage loan bonds, 4½ per cent....		489,500 00
Sewerage loan bonds, canceled.....		377,500 00
Sewerage fund, general taxes.....		5,099,576 64
General fund.....	382 55	
Suspense account.....	111,548 77	
Advances.....		14,588 77
Deficiency in collection of taxes.....		2,615 27
Sewerage, stock account.....	9,000 00	
Sixty-ninth street pump. works (sewer)	3,999 65	
Sewerage maintenance account.....	123,524 08	
Appropriation fund.....		198,242 96
Town of Jefferson.....	2,100 00	
Improved streets.....	105,361 86	
Inspection account.....		97 50
Chicago, Madison & Northern Railroad		188 22
Palmer & Newberry.....		270 58
Rapid Transit & Bridge Construction Company.....		333 35
Western Paving & Supply Company...		200 00
Simmons & Gordon.....		29 16
Sidewalk intersections.....	3,557 09	
Sidewalk general repairs.....	82,979 67	
Public benefits.....	170 91	
Bureau of Light.....	3,461 00	
Chicago harbor.....	15,068 67	
Carried forward.....	\$ 50,518,583 85	\$ 50,505,246 92

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 50,518,588 85	\$ 50,505,246 92
Fullerton avenue conduit.....	1,672 56	
Canal pump. works extension.....		51,187 63
Canal pump. works.....	5,798 62	
Weed street bridge.....	533 25	
Ninety-fifth street bridge.....	17,873 95	
Belmont avenue bridge.....		6,387 39
Thirty-fifth street bridge.....		1,337 90
California avenue bridge.....		2,316 14
Eighteenth street viaduct.....	100 00	
Ashland avenue viaduct.....	120 00	
Permit depositors.....		17,440 89
Street Department, stock account.....	5,982 32	
R. A. Smith, cashier.....	1,500 00	
Deficiency in collection of taxes.....	9,409 47	
Ogden ditch dam.....	2,424 10	
Taylor street bridge.....	19,205 69	
Clark street bridge.....		6,759 10
West Taylor street viaduct.....	14,817 93	
Ogden avenue viaduct.....	13,878 51	
Webster avenue bridge.....		4,047 67
Western avenue bridge.....	416 25	
Washington street bridge.....		2,440 81
North avenue viaduct.....	399 00	
West Division street viaduct.....	301 00	
Special deposits		2,037 50
Board of Education.....	2 50	
World's Columbian Exposition.....		13,817 05
	<u>\$50,613,019 00</u>	<u>\$50,613,019 00</u>

Respectfully submitted,

EDWARD F. HAMILTON,

Book-keeper.



